



सत्यमेव जयते

Government of India
Ministry of Power
North Eastern Regional Power Committee
Lapalang, Shillong 793006



No. NERPC/SE (O)/OCC/2021/ **1289-1325**

Dated: 28th December, 2022

संलग्न सूची के अनुसार
As per list enclosed.

Sub: Minutes of 197th OCC Meeting.

Sir/Madam,

Please find enclosed herewith the minutes of 197th OCC Meeting held at **Hotel Radisson Blue, Guwahati** on **16th December, 2022** for your kind information and necessary action. The minute is also available on the website of NERPC, **www.nerpc.gov.in**.

Any comments/observations may kindly be communicated to NERPC Secretariat at the earliest.

Encl: As above

Yours faithfully,

(S.Mukherjee)

Dy. Director

List of Addressees:

1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati – 781 001
2. Managing Director, APDCL, Bijuli Bhawan, Guwahati – 781 001
3. Managing Director, APGCL, Bijuli Bhawan, Guwahati – 781 001
4. Director (Generation), Me. PGCL, Lumjingshai, Short Round Road, Shillong – 793 001
5. Director (Distribution), Me. ECL, Lumjingshai, Short Round Road, Shillong – 793 001
6. Director (Transmission), Me. PTCL, Lumjingshai, Short Round Road, Shillong – 793 001
7. Managing Director, MSPDCL, Secure Office Bldg. Complex, South Block, Imphal – 795 001
8. Managing Director, MSPCL, Electricity Complex, Keishampat, Imphal – 795 001
9. Director (Tech.), TSECL, Banamalipur, Agartala -799 001.
10. Director (Generation), TPGCL, Banamalipur, Agartala -799 001.
11. Chief Engineer (WE Zone),Department of Power ,Govt. of Arunachal Pradesh, Itanagar- 791111
12. Chief Engineer (EE Zone),Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
13. Chief Engineer (TP&MZ),Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
14. Engineer-in-Chief (P&E), Department of Power, Govt. of Mizoram, Aizawl – 796 001
15. Engineer-in-Chief (P), Department of Power, Govt. of Nagaland, Kohima – 797 001
16. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
17. Group General Manager, NTPC, Bongaigoan Thermal Power Project, P.O. Salakati, Kokrajhar- 783369
18. ED, NERTS, PGCIL, Dongtieh-Lower Nongrah, Lapalang, Shillong -793 006
19. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
20. ED (Commercial), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
21. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
22. Vice President (Plant), OTPC, Badarghat Complex, Agartala, Tripura - 799014
23. ED, NERLDC, Dongtieh, Lower Nongrah, Lapalang, Shillong -793 006
24. Chief Engineer, GM Division, Central Electricity Authority, New Delhi – 110066
25. Chief Engineer (NPC), GM Division, Central Electricity Authority, New Delhi – 110066
26. CGM, AEGCL, Bijuli Bhawan, Guwahati – 781001
27. CGM, APGCL, Bijuli Bhawan, Guwahati – 781001
28. CGM, DISCOM, Bijuli Bhawan, Guwahati – 781001
29. Head of SLDC, MeECL, Lumjingshai, SR Road, Umjarain, Shillong – 793022
30. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar – 791111
31. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur – 797103
32. Head of SLDC, MSPCL, Imphal – 795001
33. Head of SLDC, P&E Deptt. Govt. of Mizoram, Aizawl – 796 001
34. Head of SLDC, TSECL, Agartala – 799001
35. Chief Engineer(Elect), Loktak HEP,Vidyut Vihar, Kom Keirap, Manipur- 795124
36. DGM (O&M), OTPC, Badarghat Complex, Agartala, Tripura – 799014
37. Director,NETC,2C,3rdFloor, D21Corporate Park, DMRC Building Sector 21, Dwarka, Delhi-110077.



(S.Mukherjee)

Dy. Director



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Minutes of Meeting of 197th OCCM, NERPC



Govt. of India
Ministry of Power
North Eastern Regional Power Committee
Shillong

North Eastern Regional Power Committee

Minutes of

197thOCC Sub-Committee Meeting

Time of meeting : 10:00 Hrs.

Date of meeting : 16thDecember2022 (Friday)

Venue :“Hotel Radisson Blue, Guwahati”

The List of Participants in the 197th OCC Meeting is attached at **Annexure-I**

Shri B.Lyngkhohi, Member Secretary, NERPC welcomed the participants to the 197th OCC meeting. He thanked ENICL/INDIGRID for organizing the meeting at such short notice and applauded the efforts of the entire INDIGRID team esp. COO, INDIGRID Sh. Satish Talamale for his leadership in organising the 197th OCC & 47th CCM of NERPC.

Thereafter, Member Secretary requested DD, NERPC to take up the agenda items for discussion.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 196thMEETING OF OPERATION SUB-COMMITTEE OF NERPC.

The minutes of 196thmeeting of Operation Sub-committee held on 25th November, 2022 via online mode were circulated vide letter No. NERPC/SE (O)/OCC/2021/9459-9495dated 2nd December, 2022.

Utility	Agenda Item	Recorded in MoM	Comments
NERLDC	B.8	Regarding Reliable power supply in Meghalaya.	Following additions to be done i)All the cases assume 107MW internal generation ii) Thus, combined load of Lumshnong area, Capital area of Meghalaya power system and Haflong, Jiribam area of Assam system must be limited to 80 MW for safe and reliable operation.
	B.10	Nagaland intimated that segregation of UFR and ADMSto be done by Jan'23 and RTUs	Nagaland intimated that for segregation of UFR and ADMS, new UFR shall be included in Stage-I at NagarjanSubstation and the same shall

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		for stg1 feeders have been included in DPR.	be done by Jan'23 and RTUs for stg1 feeders have been included in DPR.
B.11		<p>i) However, testing at Kameng is confirmed to be done</p> <p>ii) Regarding OTPC Palatana, PFR testing of unit 2 by m/s Solvina is scheduled on 20th and 21st Dec'22 and for unit 1, which is to be done by m/s Siemens, date is yet to be finalised.</p>	<p>i) However, testing at Kameng HEP is completed on 20th to 21st Oct. 2022.</p> <p>ii) Regarding OTPC Palatana, PFR testing of unit 2 by M/s Solvina is scheduled on 20th and 21st Dec'22 and for unit 1, which is to be done by M/s Siemens, date is scheduled on 22nd& 23rd Dec'22.</p>
B.15		PGCIL rebutted that the extensions were due to delays in obtaining RIO clearance, which in turn has been obtained on 24.11.2022.	PGCIL rebutted that the extensions were due to delays in obtaining RIO clearance. It was informed that RIO inspection has been completed on 24.11.2022 and the clearance is expected to be received soon
C.3		MS NERPC exhorted PGCIL to avoid such delays in future.	MS NERPC exhorted PGCIL to avoid such delays in future and further informed that repeated delays in restoration of elements post shutdown and non-adherence to the approved shutdown timings for the same elements shall be strictly monitored by the forum.
C.5		PGCIL clarified that bushing replacement of the reactor is required and which can only be carried out after bringing BTPS-Salakati DC into service.	PGCIL clarified that bushing replacement of the reactor is required which can only be carried out after availing shutdown of 400 kV Bongaigaon-Byrnihat line and the same may be availed only while 220 kV BTPS-Salakati DC is in service (presently one out of the two circuits are under planned shutdown for upgradation to HTLS). PGCIL ensured that the works shall be completed as and when the shutdown is allowed
C.11		The forum agreed for charging of the line without PLCC, but exhorted AeGCL to install PLCC	The forum agreed for charging of the line without PLCC, but exhorted AeGCL to install PLCC within a set deadline

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		within a set deadline.	which is to be submitted to NERLDC via an undertaking along with the FTC application. Further, the forum requested AEGCL to ensure availability of SEM prior to FTC of the said line.
	E.2	<p>i) DoP, AP will rectify Deomali SEM by Oct'22 for 220 kV Deomali (AP) – AGBPP(Kathalguri) feeder.</p> <p>ii) MSPCL reiterated that Tipaimukh SEM needs replacement. PGCIL stated that replacement meter will be sent shortly.</p>	<p>i) DoP, AP informed that the issue of Deomali SEM has been rectified for 220 kV Deomali (AP) - AGBPP (Kathalguri) feeder</p> <p>ii) MSPCL reiterated that Tipaimukh SEM needs replacement. PGCIL stated that replacement meter will be sent to Imphal shortly and as per their discussion with the concerned in Manipur, the SEM shall be collected and installed at Tipaimukh by Manipur officials.</p>
AEGCL	B.16	DGM, SLDC, AEGCL informed that Twin Moose conversion is not possible as the tower at Loc. No.233 as it is supported with stay wires and anchor tower is being constructed (by POWERGRID) to support the same. However HTLS is possible and same shall be completed by Jan'23.	DGM (Operation), SLDC stated that An anchor tower is being constructed by PGCIL for providing support to tower no 433 and it is expected to be completed within 3 months. After completion of the tower upgradation to MOOSE conductor may be done.
DoP Nagaland	B.15	Regarding agreement on O&M of respective bays of DoP Nagaland and PGCIL, DoPNagaland stated that it will be finalized soon, and PGCIL have already provide bay equipment details to Nagaland.	EE(SLDC), DoP Nagaland stated that certain points need to be clarified prior to charging viz. financial modalities for maintenance of 220kV Zhadima bay at Mokokchung by POWERGRID, new equipments to be installed in the bay to be maintained by DoP Nagaland. Further, the agreement is a pre-requisite for charging of both the lines.

The Sub-committee confirmed the minutes of 196th OCCM of NERPC with above modifications as no other comments/observations were received from the constituents.

B. FOLLOW UP AGENDA ITEMS

B.1. Operational Performance and Grid discipline during October,2022:

NERLDC presented the Operational Performance and Grid Discipline for the month of November'2022. The same is provided in the **Annexure B.1.**

B.2. Generation Planning (ongoing and planned outages)

a. Present per day MU and projected number of days of operation.

Plants	Reservoir level in meter (as on 14/12/2022)	MU content	Present DC (in MU)	No of days as per current generation
Khandong + Kopilistg II			0	
Kopili			0	Will be "0" until further intimation.
Doyang	317.41	18	0.189	95
Loktak	766.63	16.3	0.6125	27

The outage of other generating stations may be approved considering the present water levels in reservoirs and long-term outage of Kopili HEP.

Deliberation of the sub-committee

After detailed deliberation the forum approved the outage of Generators in January'23.

The sub-committee noted as above.

B.3. Outage Planning Transmission elements

It was agreed in the 99th OCC meeting that shutdown will be availed only after approval is given by the OCC forum. It was also agreed that deferment/revision of outages elements other than already approved in OCC will be henceforth put/displayed in the website of NERPC (under Operational Activities/OCC Approved shutdown) as per CERC regulations/ CEA guidelines etc for ensuring smooth & secure grid operation.

Furnishing request of shut down of the element, which was approved by NERPC, by Indenting Agency (ISTS licensees/STUs/Generating Companies) to NERLDC:Planned shutdown approved by NERPC shall be considered for implementation by NERLDC on D-3 basis. If an outage is to be availed on say 10th of the month, the shutdown availing agency would reconfirm to NERLDC on 7th of the month by 10:00 Hr. This practice is necessary to ensure optimal capacity utilization and the time required for associated system study/coordination by/amongst RLDC/NLDC.

It was decided in the previous OCCM that shutdown would be granted from the 1st day of the following calendar month to the 30th/31st day of the same month.

Deliberation of the sub-committee

After detailed deliberation the forum approved the shutdown of transmission elements for January'23 (attached at **Annexure-B.3**)

The sub-committee noted as above.

B.4. Estimated Transmission Availability Certificate (TAC) for the month of October, 2022:

Transmission Utilities have submitted the outage data for the months of October and November, 2022. So, the attributability of outage of the said elements is being finalized by NERLDC & NERPC. The Availability certificates of the transmission elements of ISTS licensees for the month of October and November, 2022 will be issued at the earliest

SN	ISTS Licensee	Availability for October'22(%)
1	NETC	100.0000
2	KMTL	-
3	NER-II TL	99.9640
4	PGCIL	99.8210 (Sep)

The sub-committee noted as above

B.5. Mock Black Start Exercise:

The previous mock black start & restoration exercise has been conducted at various generating stations in NER on the dates mentioned in the following table:

As per regulation 5.8 (b) of IEGC, mock black start shall be carried out by Users/CTU/STUs at-least once in 6 months.

Status as updated in the 196th OCCM:

Plant Name	Performed On	Due Date	Schedule of Testing as per 196 th OCCM
AGBPP	after upgradation of DG under R&M
AGTTCCPP	09.04.2019	09.10.2019	Dec'22*
PareHEP	25.01.2020	25.07.2020	To be done in lean hydro season
Kopili HEP	10.05.2019	NA	NA
Kameng HEP	In Lean Hydro season
Doyang HEP	-	-	Completed on 21 st Oct'22

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KopiliStg-II	-	-	Under prolonged shutdown
RHEP	-	-	Scheduled on 29 th Nov'22

*DGM, SLDC TSECL updated that synchronization trolley is installed at 79Tilla on 16th Nov'22. Consequently, GM NEEPCO stated that AGTCCPP will come up with a suitable date for the exercise in consultation with NERLDC.

Deliberation of the sub-committee

Status as updated in the 197th OCCM:

Plant Name	Performed On	Due Date	Schedule of Testing as per 196 th OCCM
AGBPP	after upgradation of DG under R&M
AGTCCPP	09.04.2019	09.10.2019	Dec'22*
PareHEP	25.01.2020	25.07.2020	To be done in lean hydro season
Kopili HEP	10.05.2019	NA	NA
Kameng HEP	In Lean Hydro season
Doyang HEP	-	-	Completed on 21 st Oct'22
KopiliStg-II	-	-	Under prolonged shutdown
RHEP	-	-	Done on 28 th Nov'22

*DGM, SLDC TSECL updated that synchronization trolley is installed at 79Tilla on 16th Nov'22. Consequently, ED NEEPCO stated that R&M activities at AGTCCPP are over will come up with a suitable date later for the exercise in consultation with NERLDC.

The Sub-Committee noted as above

Action: NEEPCO

B.6. Status of ADMS:

Status for Automatic Demand Management Scheme in 7 states of NER. The SLDCs informed the latest status as follows:

Name of the utility	SAT Completion	DoCO
DoPar.Pradesh	27-01-2021	Enabled & in-operation
AEGCL/APDCL	07-12-2020	Enabled & in-operation
MSPCL	24-11-2020	Enabled & in-operation
MePTCL/MePDCL	31-08-2020	Enabled & in-operation
P&ED Mizoram	22-02-2021	Enabled & in-operation
DoP Nagaland	17-11-2020	To be enabled after stability of ICCP link
TSECL	24-12-2020	To be enabled by Oct'22

In the 194th OCCM, Member Secretary, NERPC informed that after Inspection by PSDF-CEA team the following points have been raised w.r.t. ADMS implementation in Assam:

- a. ADMS implementation over ICCP protocol rather than with the approved OPC system
- b. Go Live or DoCO post Cyber Security Audit certification
- c. Non-communication of 5 out of 10 Sub-stations with ADMS Server

In 195th OCC NERPC provided clarification on the following two aspects:

- ADMS System Implementation with ICCP Protocol Interface with existing EMS SCADA System implemented and supported/managed by GE.
- Revision of x Go Live or DoCO date vis-a-vis Cyber Security Audit certification.

In 196th OCC DGM, TSECL updated that ADMS has been enabled at SurajmaniNagar (4MW) and Badarghat (8MW), while for the 3 Sub-stations (viz. Takerjhala, Bishalgarh, Badarpur) shifted under NERPSIP work is underway for ADMS integration. Also,NERLDC highlighted that ADMS logics are still different across states and information on operation of ADMS is not available for monitoring. After detailed deliberation, the forum requested states to harmonize the tripping logics in their respective states as decided during the 189th OCC Meeting and regularly provide consolidated load shed report /logs through ADMS operation to NERLDC and NERPC.

Deliberation of the sub-committee

DoP Nagaland updated that the link between ICCP server and ADMS server has been resolved on 17th September 2022 and the new date of commissioning is 7th October 2022. The forum appreciated the development. However, the logic adopted is Deviation > 10% of schedule or frequency <49.85 and drawl> schedule.

Regarding Tripura, SLDC TSECL reiterated that ADMS at Takerjhala, Bishalgarh and Badarpur can be enabled only after the completion of works by NERPSIP.

Manager, NERLDC highlighted that all NER states are presently undergoing the process of harmonization of tripping logic in ADMS as per the logics decided during 189th OCC meeting. The logics were formulated by taking reference from the DSM 2014 regulations. However, after implementation of DSM 2022 regulations w.e.f. 5th Dec

2022, the ADMS tripping logics need to be aligned to DSM 2022 regulations. The proposed changes in tripping logic, in line with new DSM regulation, is as follows-

- i. For scheduled drawl<400MW, tripping should occur when deviation > min[40MW, 20% of schedule] OR if frequency <49.85 and drawl> schedule
- ii. For scheduled drawl>400MW, tripping should occur when deviation > min[100MW, 10% of schedule] OR if frequency <49.85 and drawl> schedule

The forum requested all the SLDCs to implement the revised logic as per new DSM regulation at the earliest.

The Sub-Committee noted as above

Action: all SLDCs

B.7. Violation of state wise TTC/ATC:

As per POSOCO KPI, NERLDC has to report the violation of import TTC/ATC of NER states in daily, weekly and monthly basis. It has been observed that most of the NER states are not N-1 secure causing violation of TTC/ATC limit although the actual drawl remains within the schedule values. Violation has been observed in case of Assam, Meghalaya, and Tripura states.

The TTC/ATC calculation of States done by NERLDC is as follows:

State	Time Period	N-1 considered	Limiting element	TTC	RM	ATC
Arunachal Pradesh	Off-Peak	132kV Lekhi – Pare	132 kV Pare – Itanagar S/C	195	5	180
	Peak	Pare		195	5	180
Assam	Off-Peak	220kV Misa-Samaguri I or II	220 kV Balipara-Sonabil	1730	40	1690
	Peak			1600	40	1690
Manipur	Off-Peak	132kV Imphal MA-Imphal PG Ckt I	132 kV Imphal (MA)-Imphal (PG) II & III	320	5	315
	Peak			320	5	315
Meghalaya	Off-Peak	132 kV Umiam3 – Umiam I	132 kV Umiam-Umiam Umiam 1 II	340	10	330
	Peak			260	10	250
Mizoram	Off-Peak	132 kV Melriat-Silchar I or ORII	132 kV Aizawl-Luangmual S/C	160	5	155
	Peak			155	5	150
Nagaland	Off-Peak	220/132 kV ,100 MVA Dimapur ICT	220/132 kV ,30 MVA Mokochung ICTs	255	5	245
	Peak			290	5	285
Tripura	Off-Peak	132 kV SM Nagar(ISTS)	132 kV SM-Nagar (TR) – SM Nagar (ISTS) S/C	340	6	334
	Peak	Budjungnagar S/C		315	6	304

In previous OCC meeting(s) it was decided that in the event of any major shutdown(approved/emergency) the state periphery ATC/TTC shall be calculated by respective SLDC and communicated to NERLDC. NERLDC conducted a training session on 29.06.2022 on calculating ATC, TTC for states at NERPC.

In 196th OCCM, SLDC AeGCL intimated that ATC/TTC for the month of October could not be provided because of PSSE discrepancy in base case of network modeling, which was subsequently addressed by NERLDC.

Moreover, NERLDC has requested all state SLDCs to check their base cases and consult in case of discrepancy.

After detailed deliberation the forum requested all the states to provide the respective ATC/TTC to NERLDC on monthly basis.

Deliberation of the sub-committee

Manager, NERLDC intimated the forum that all the states except Manipur and Arunachal Pradesh are regularly sending the ATC/TTC report to NERLDC. Also, ATC/TTC violations were observed in the Meghalaya power system.

Arunachal Pradesh cited the manpower shortage issue and Manipur promised to provide the report next month onwards. Member Secretary NERPC, exhorted the two states to approach NERLDC in case of requirement of any assistance and to submit the reports regularly.

The Sub-Committee noted as above

Action: SLDC Arunachal Pradesh, SLDC Tripura.

B.8. Issues pertaining to Kopili&Khandong.

A. Load restriction in Meghalaya Power System due to planned outage of Khandong HEP &KopiliStg-II:

The planned shutdown of Khandong HEP and Kopili Stage II has been approved from 10.01.2022 to 09.05.2022 in the 185thOCCM for the following activities:

- a. Inspection and repairing of Khandong Head Race Tunnel, Trash Rack Gate, Intake Gate, Surge Shaft Gates, Steel Liner of HRT etc.
- b. Acid Proof Coating of Stage-II Penstock
- c. Installation and commissioning of Penstock Protection BFV System of Khandong
- d. Annual Planned Maintenance of Khandong Unit# I & II.

Decisions as per previous meetings: (i) Meghalaya System shall be operated by opening of 132kV Mawngap-Nongstoin T/L right from the start of Khandong HEP shutdown. (ii) In normal circumstances no load shedding is required and Meghalaya can continue to cater full demand based on present generation scenario. (iii) In event of tripping of any one circuit of 132kV UmiamStg-I to UmiamStg-III D/C SLDC Meghalaya shall swiftly shed load till loading of 132kV UmiamStg-I to UmiamStg-III S/C is within limit and

also increase generation from UmiamStg-I HEP and Leshka HEP. (iv) based on Real Time Condition Mawphlang may be shifted to be fed from Agia side after concurrence of NERLDC, (v) Early restoration of Misa-Kopili-Khandong link by NERTS/NEEPCO.

B. Station supply at Khandong and Kopili Power Station:

Following the discussions in the 189th OCC and in the special meeting held on 27.04.2022 in presence of representatives from NERPC, NERLDC, NEEPCO, NERTS and AEGCL, Khliehriat – Khandong – Umrangshu link was charged as an interim special arrangement.

1. As agreed in the special meeting, AEGCL was requested to extend the PLCC system from Umrangshu to Haflong by 15th May 2022.
2. Since all the CRPs at Khandong Control room are under debris now and it is doubtful for revival of the same, NEEPCO is planning to arrange following CRPs and 220V DC source to charge the Khandong bus radially from Umrongso Sub-station only.

It may kindly be noted that due to Khandong incident, the construction restoration activities of 4x50MW Kopili P.S, 2x25MW Khandong and 1x25MW Kopili Stage-II is badly hampered. Whatever activities are being carried out is based on DG Power only which is not the solution and progress of work has been severely hit.

As a stop gap arrangement following CRPs and 220V DC source shall be arranged by NEEPCO at the earliest.

- 132KV Umrongso bay – 1 No.
 - 132/33KV 7.5MVA & 3MVA – 2 Nos.
 - 33/0.4KV SAT 1MVA – 2 Nos.
 - 33KV Umrongso line – 1 No.
 - 33KV Kopili line – 1 No.
3. As discussed in 192nd OCC, NEEPCO has sent consent letter for becoming Bulk power consumer of APDCL for the consumption of construction power for restoration works of KhandongHEP. Further NEEPCO shall be sending weekly SEM reading to Assam/NERLDC. Also, NEEPCO requested for installation of 2 nos SEMs at the earliest so that restoration works can be started.
 4. In 193rd OCC, GM, NEEPCO proposed space for 2 CRP in oldkioskroomnearKhandong stage 1 to PGCIL for Panel installation for 132kV Khliehriat-Khandong - 2 line and 132kV Khandong-Kopili line 2.

5. In 194th OCC, GM, NEEPCO informed the forum that for drawing of construction power from 132kV Bus at Khandong via the two 132/33kV Transformers CRPs are at site but 220V DC battery bank is unavailable, for which order has been placed and will be supplied by Sep'22. Thereafter, drawing of power from the Grid shall commence by 1st week of October'2022. Regarding Panel installation for 132kV Khliehriat-Khandong - 2 line and 132kV Khandong – Kopili - 2, NERTS assured the forum to complete the work before Feb'23.

C. Recommissioning of 1X25 MW Khandong Stage-II plant

NEEPCO is planning to re-commission and synchronize 1X25MW Khandong Stage-II unit within this current financial year. Since all the Control & relay panels are submerged and damaged beyond repair during the inundation on 26.03.2022, for successful commissioning and evacuation of the generated power, the Khandong Switch Yard has to be adequately restored within February – 2023.

Present Status:

1. One CRP for Khandong-Umrongso feeder at Khandong end is procured and expected to be commissioned by NEEPCO before February 2022.
2. One Temporary KIOSK room has been identified and Cable trenches are under construction and, cables are being re-routed.

Status of action being taken by NERTS, POWERGRID:

1. The matter for availability of one more 132KV line from Khandong SY to Khliehriat (PG) Sub-Station was discussed in the last OCC meetings, the availability of towers nearby Khandong Power Stations/new arrangement may be intimated to NEEPCO.
2. For the above, NERTS, POWERGRID was requested to install 1(one) BCU based CRP February-2023. Status of the same may kindly be shared with NEEPCO.
3. NERTS, POWERGRID was requested to ensure the installation of PLCC panel for Khandong – Khliehriat line along with FOTE panels for digital and analog data/voice, protection and communication to NERLDC before synchronization of the Khandong Stage-II.

Status of action taken by AEGCL:

1. AEGCL was requested to provide a PLCC Panel for Khandong-Umrongso line and NEEPCO was to provide the 48V battery bank with charger for PLCC. Status of the same may please be intimated to NEEPCO.

In the 196th OCCM, following points were discussed-

1. Regarding power supply to Meghalaya Power system

- Meghalaya Power system to operate in bifurcation mode (132kV Mawngap-Nongstoin T/L shall be opened and Nongstoin, Nangalbibra, Tura and Ampati to be fed from Agia) with installation of 20MVAR capacitor banks at 132/33kV NEHU SS till the reconductoring of UmiamstgI-stgIII DC reconductoring work is done. After the reconductoring, It will shift to closed loop mode wherein maximum of 380MW maximum demand can be met with 107 MW Meghalaya internal generation.
- Early restoration of 132kV Jiribam –Haflong line (out due to Line diversion work by NHIDCL – NH48 / replacement of tower due to landslides in road widening area) which will improve the ATC/TTC of Meghalaya State. NERTS informed the forum that the PGCIL updated that National wildlife Board meeting for forest clearance is scheduled in Dec'22, line will be restored soon after obtaining the forest clearance
- Early commissioning of 220kV Mawngap-Killing line. NERPSIP updated that RoW issue is still unresolved and the matter is being discussed with the state government.

2. Kopili Related activities

48V DC supply for PLCC panels is being undertaken by NEEPCO. PGCIL provided the load requirement of 20A max.

3. Khandong S/y related activities

AEGCL asked PGCIL to undertake the transportation of 2CRPs at Srikona SS to Khandong Switchyard for 132kV Kopili-Khandong#2 & 132kV Khandong-Khliehriat#2 Lines. PGCIL updated that relay replacement works in the CRPs is underway, transportation will be done thereafter.

Deliberation of the sub-committee

1. Regarding power supply in Meghalaya

- SLDC Meghalaya intimated the forum that the HTLS reconductoring of Umiam stg 1 –stg III will be completed before the sanctioned shutdown deadline of 24th December. After reconductoring the Meghalaya power system will shift to closed loop mode wherein maximum of 380MW maximum demand can be met with 107 MW Meghalaya internal generation.
- Regarding restoration of Jiribam-Haflong line, forest clearance is in abeyance as National wildlife Board meeting has not yet taken place.

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- Regarding Mawngap-Killing line, Manger NERPSIP state that the issues are regularly taken up in higher administrative level meetings and RoW issues be resolve as soon as a resolution emerges.

2. Kopili Related activities

Regarding 48V DC supply for PLCC panels, AEGCL stated that order is being processed.

3. Khandong S/y related activities

Regarding transportation of 2 CRPS, for 132kV Kopili-Khandong#2 & 132kV Khandong-Khliehriat#2 Lines, from Srikona SS to Khandong SS, PGCIL updated that replacement of some relays in the CRPs is underway and transportation will take place thereafter.

The Sub-Committee noted as above

Action: MePTCL, NEEPCO, NERPSIP-POWERGRID.

B.9. Implementation of Guwahati Islanding Scheme:

In the 190th OCCM, DD, NERPC stated that in the Special Meeting on 13th May'22 it was decided that dedicated fiber is required in order to ensure Cyber Security. AEGCL intimated that Dedicated Fiber is available in the link SLDC – Sarusajai – Mirza – Boko – Agia – BTPS – BgTPP and offered the same for the Islanding Scheme. The forum requested NERTS to explore the availability of dedicated fiber. Member Secretary, NERPC stated that after budgetary offer is received from at least two vendors the DPR will be finalized.

In 195th OCC, Member Secretary, NERPC informed the forum that the budgetary offer from M/s GE has been received. He added that the DPR for the Guwahati Islanding Scheme shall be finalized by Oct, 2022.

In 196th OCCM Member Secretary NERPC updated that the finalized DPR wa discussed in 22nd RPC meeting and issue of high cost was flagged. So, re estimation of project cost will be done at the earliest

Deliberation of the sub-committee

The forum highlighted that Assam should try and reduce their cost in the DPR especially in communication related portions.

CTU highlighted that CEA Technical Standards of communication system in power system operation states that 'All wideband communications shall be established using

fibre optic communication consisting of underground fibre optic cable, optical ground wire (OPGW) or underground fiber optic cable (UGFO) and all dielectric self-supporting (ADSS)'. However, CTU suggested that Wideband communication using OPGW should be adopted as more applications can be added in future.

AEGCL clarified that reducing costs in communication for the islanding scheme is not likely as Generation centre in the island is very distant from the load centre.

Nevertheless, Member secretary NERPC, urged AEGCL to re-examine the cost estimates in the DPR and studies will be discussed in the next meeting with the CEA.

The Sub-Committee noted as above

Action: AEGCL.

B.10. Furnishing details of upgraded UFR settings alongwith list of feeders and quantum of load:

Status as updated in the 196thOCC meeting:

Name of the state/utility	Submission of revised UFR list	Implementation of revised settings	Status of mapping
Ar. Pradesh	Submitted	Stg-1 (49.4Hz)implementation in new feeders. UFR to be procured by July'22, implementation to be done by Mar'23**	Written to GE, will be done soon*
Assam	Submitted	Installation Completed. UFR to be shifted to Samaguri for 132kV Khaloigaon-Samaguri line.	Done
Manipur	Not submitted	No extra shedding required only Stage upward revision to be done.	To be done
Meghalaya	Submitted	17 out of 17 feeders completed. Forum requested to share the points with RLDC SCADA	One feeder of Stage IV left for mappingOther stages completed.
Mizoram	To be		By Sep'22

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	submitted	Completed	subject to resolving of SCADA issues***
Nagaland	Submitted	Completed	Mapped except Stage-I feeders##
Tripura	Submitted	Stage-1(49.4Hz), Stage-2 (49.2Hz), Stage-3(49Hz) require installation of UFR. – Delivery at site by Sep22 and installation by Oct'22	To be done by the end of this month except for Non-RTU lines.

*No RTUs available for the selected feeders, DPR being prepared. The forum requested to share the SLDC display with NERLDC.

**waiting for Guwahati Islanding scheme to come. UFR to be put into that scheme

***Forum requested to resolve the communication issue and meanwhile share the SCADA display with the RLDC.

In the 196th OCCM, Arunachal Pradesh intimated that interaction with GE is undergoing for mapping works and it will be completed before Jan'23.

Manipur intimated that stage upward revision is done and talks with GE is underway regarding Mapping and will be completed before Jan'23. Sr. GM,NERLDC suggested SLDC Manipur to add extra feeder to stg1 and stg 4 in order to reach the quantum of 10MW load shedding for each stage.

Nagaland intimated that for segregation of UFR and ADMS, new UFR shall be included in Stage-I at Nagarjan Substation and the same shall be done by Jan'23 and RTUs for stg1 feeders have been included in DPR.

Tripura updated that installation of relays for stg 1 has been completed and details will be submitted to NERLDC in 2,3 days. As regard mapping, SCAD team is visiting and working on it and will be done by Jan'23.

Mizoram stated that talks with GE is undergoing regarding mapping of feeders and will be completed Jan'23.

Meghalaya intimated that mapping is completed.

Deliberation of the sub-committee

Status as updated in the 197th OCC meeting

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Name of the state/utility	Submission of revised UFR list	Implementation of revised settings	Status of mapping
Ar. Pradesh	Submitted	Stg-1 (49.4Hz) implementation in new feeders. UFR to be procured by July'22, implementation to be done by Mar'23**	LoA to M/s GE*
Assam	Submitted	Installation Completed. UFR to be shifted to Samaguri for 132kV Khaloigaon-Samaguri line.	Done
Manipur	Not submitted	No extra shedding required only Stage upward revision to be done. ADMS and UFR feeder segregation to be done for Stage-I	To be done
Meghalaya	Submitted	17 out of 17 feeders completed. Forum requested to share the points with RLDC SCADA	One feeder of Stage IV left for mapping Other stages completed.
Mizoram	To be submitted	Completed	By Dec'22 subject to resolving of SCADA issues
Nagaland	Submitted	Completed	Completed**
Tripura	Submitted	Stage-1(49.4Hz), Stage-2 (49.2Hz), Stage-3(49Hz) require installation of UFR. – Delivery at site by Sep22 and installation by Oct'22	Jan'23

*EE, SLDC, DoP Arunachal Pradesh intimated the forum that mapping is pending as repeated communication with M/sGE is going unanswered. The forum requested the intervention of NERTS so that work is completed by GE at the earliest. CGM(AM), NERTS assured that POWERGRID will follow up the matter with M/s GE.

**Nagaland updated that mapping work is completed and as per the direction of 196th OCC forum, Stage-I of UFR has been segregated from ADMS scheme by shifting the stage-I of UFR to 66kV Ganeshnagar feeder at Dimapur (Nagaland) S/s.

The Sub-Committee noted as above

Action: all utilities as above.

B.11. Primary Frequency Response testing plan of remaining units in NER:

Primary Frequency Response Testing of generator units is being carried out in line with the Clauseno.5.2(g) of Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010.

Schedule as agreed in the 196thOCC meeting:

Region	Station	No. of generators	Suggested Schedule		Duration (days)
			Test Start	Test End	
NER	NEEPCO-Monarchak	1	26 th July'22	28 th July'22	done
NER	NEEPCO-Kameng	1 (by M/s Solvina)	Oct'22	Oct'22	2
NER	OTPC- Palatana	2 (by M/sSolvina)	Nov'22	Nov'22	4
NER	Doyang-NEEPCO	2 (by M/s Siemens)	Oct'22	Oct'22	4(water level to be sufficient enough to run the units at full capacity)

In the 196th OCC,GM, NEEPCO stated that PFR testing at Doyang HEP is not possible this season due to consistently low water level. However, testing at Kameng HEP is completed on 20th to 21st Oct. 2022.

Regarding OTPC Palatana, PFR testing of unit 2 by M/s Solvina is scheduled on 20th and 21st Dec'22 and for unit 1, which is to be done by M/s Siemens, date is scheduled on 22nd& 23rd Dec'22.

Deliberation of the sub-committee

Schedule as agreed in the 197thOCC meeting:

Region	Station	No. of generators	Suggested Schedule		Duration (days)
			Test Start	Test End	
NER	NEEPCO-Monarchak	1	26 th July'22	28 th July'22	done
NER	NEEPCO-	1 (by M/s	Oct'22	Oct'22	Done on 20 th

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	Kameng	Solvina)			,21 st OCT 22
NER	OTPCL-Palatana	2 (by M/s Solvina)	Nov'22	Nov'22	To be done
NER	Doyang-NEEPCO	2 (by M/s Siemens)	Oct'22	Oct'22	4(water level to be sufficient enough to run the units at full capacity)

Regarding OTPC Palatana, PFR testing of unit 2 by M/s Solvina is scheduled on 21st and 22nd Dec'22 and for unit 1, which is to be done by M/s Siemens, date is scheduled on 22nd& 23rd Dec'22.

The Sub-Committee noted as above

Action: NEEPCO, OTPC.

B.12. Regular furnishing of Patrolling report for all Important Lines to NERLDC/NERPC

There is a requirement of regular and proper maintenance of transmission lines. It is requested to carry out the patrolling activities as per ClNo.23(2), (3) &(4) of CEAGrid Standards Regulation,2010on regular basis and submit the report to NERPC/NERLDC. It is requested to upload DR, EL& FIR outputs for transmission linesin the NERLDC tripping portal in line with Cl.5.2 R of IEGC 2010 Regulations.

In previousOCCmeetings, Member Secretary, NERPC took strong note of the non-submission of patrolling report by the utilities in spite of repeated persuasion. He directed all the utilities to submit the patrolling report for all Important Lines to NERLDC/NERPC periodically.The forum requested NERPC to send letters to states in order to urge them to submit patrolling reports.

In 196th OCCM, NERLDC highlighted that all states except Manipur and P&ED Mizoram are submitting patrolling reports, but only few lines are covered in the reports, thus leaving out important lines. MS NERPC exhorted all the states to duly undertake comprehensive patrolling of the lines and submit the reports covering all the important lines.

Deliberation of the sub-committee

DD, NERPC intimated the forum that Patrolling reports are not being submitted regularly by Arunachal Pradesh and Mizoram. DoP AP replied that transmission division is being pressurized to submit the reports regularly. P&ED Mizoram assured

the forum to give the reports hereafter. The forum appreciated the regular submission of patrolling reports by AEGCL, DoP Nagaland.

The Sub-Committee noted as above

Action: all STUs.

B.13. Monthly Review of LGBR

PARTICULARS (Peak Demand in MW as per LGBR vs Actual)	Sept-22 (LGBR)	Sept-22 (Actual)	Oct-22 (LGBR)	Oct-22 (Actual)	Nov-22 (LGBR)	Nov-22 (Actual)
Arunachal Pradesh	163.00	144	141.00	121	161.41	125
Assam	2267.21	2308	2109.98	2312	1700.00	1714
Manipur	199.00	203	205.00	202	216.00	219
Meghalaya	340.69	354	327.00	356	355.00	381
Mizoram	113.30	127	114.66	127	127.55	135
Nagaland	170.00	161	160.00	167	155.00	165
Tripura (exc. Bangladesh)	305.00	333	300.00	321	260.00	282
NER DEMAND (exc. Bangladesh)	3309.56	3497	3196.00	3405.00	2962.00	2905

PARTICULARS (Energy Requirement in MU as per LGBR vs Actual)	Sept-22 (LGBR)	Sept-22 (Actual)	Oct-22 (LGBR)	Oct-22 (Actual)	Nov-22 (Actual)	Nov-22 (Actual)
Arunachal Pradesh	77.00	72.12	69.88	88.53	66.42	69.1
Assam	1159.35	1211.630	1071.11	1006.800	780.67	811.610
Manipur	82.09	79.7	84.20	77.21	88.92	77.12
Meghalaya	168.39	176.96	180.70	186.79	183.22	199.43
Mizoram	48.46	51.58	76.43	53.17	77.61	51.76
Nagaland	78.68	82.69	79.63	76.44	64.94	64.31
Tripura (excl. Bangladesh)	155.40	155.14	152.69	150.28	114.39	120.53
NER DEMAND (exc. Bangladesh)	1743.50	1830.5987	1684.38	1639.979	1367.71	1393.86

Deliberation of the sub-committee

SE, NERPC, stated the in light of the new directions of MoP regarding zero deficiency in power availability during the period 1st April'23 to 15th May'23, the planned outages of power plants of states and ISGSs have been deferred and LGBR will be modified accordingly.

The Sub-Committee noted as above

Action: all utilities.

B.14. Installation of AWS by IMD Guwahati

It was informed in 158th OCCM that RMC, IMD, Guwahati would install Automatic WeatherStation (AWS) in NER. As per the proposed list of stations by the constituents, IMD has surveythe stations and has mentioned the requirement of NoC for the suitable stations.

In 196th OCCM, Representatives from IMD highlighted various issues with the sites proposed by the states. DGM TSECL objected to IMD that after getting NOC for the sites IMD is raising issues with sites. MS NERPC asked IMD to make report on issues faced with each site and share with the respective states. Also NERLDC requested IMD to visit the 12 sites proposed by DoP Nagaland.

As regard MoU, IMD was in agreement with draft MoU prepared by Assam and the forum requested all the states to sign the MoU, with modifications if any, by December22.

Deliberation of the sub-committee

Regarding the MoU, NERLDC intimated the forum that IMD has accepted the MoU proposed by Assam and waiting for the state to sign it and requested other states to either accept the MoU as prepared by Assam or make any amendments suited to their them. P&ED Mizoram stated that they have no issue on MoU, but will sign it only after IMD finalizes and selects the sites.

SR GM NERLDC, highlighted that IMD works with other departments also like Agriculture, Disaster management etc. who are providing faster clearances for setting up of AWS in various districts by the IMD. So, he requested the power Departments to expeditiously provide clearances for setting up AWS and avoid unduly large delays in installation of AWS. Moreover, he pointed out that power departments can also utilize data from AWS installed for other departments.

DoP Nagaland informed the forum that 14 sites have been proposed to IMD for setting up AWS but no one is finalized yet. To this, MS, NERPC asked DoP Nagaland to send a copy of request to NERPC also so that follow up actions can be taken.

After detailed deliberation the forum requested the states to finalize and the MoU expeditiously.

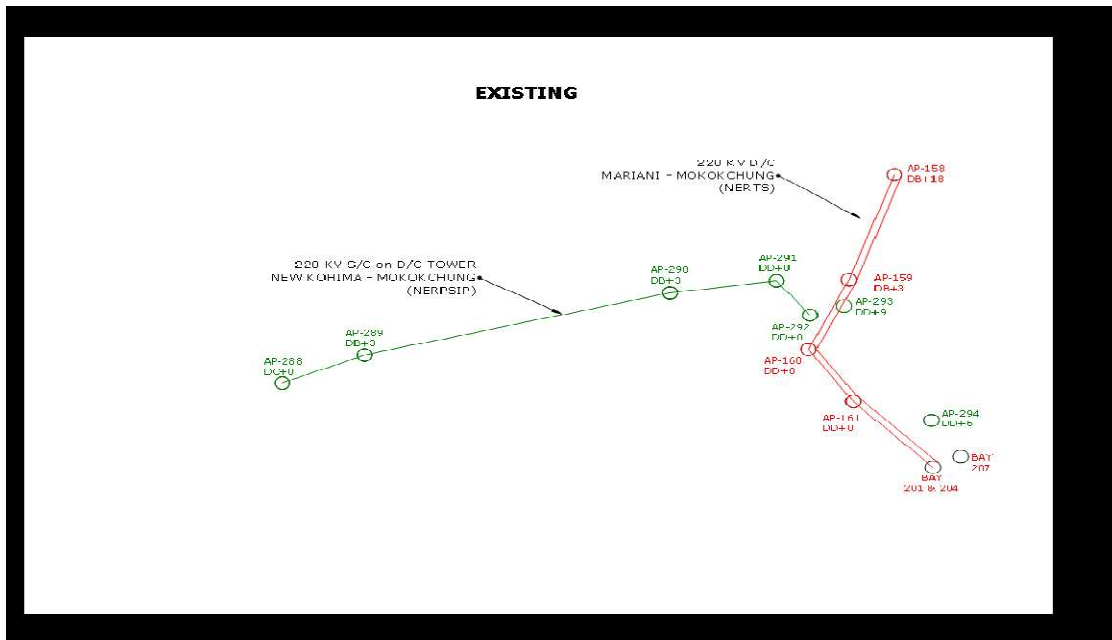
The Sub-Committee noted as above

Action: DoP Ar.Pradesh, AEGCL, MSPCL,P&ED Mizoram, DoP Nagaland, TSECL.

B.15. Requirement of shutdown for executing bay exchange and line swapping for 220kV New Kohima – Mokokchung TL under NERPSIP Nagaland:

Under the scope of NERPSIP, 220kV New Kohima GIS bay at 220/132kV Mokokchung GIS (POWERGRID) is completed and associated 220kV New Kohima – Mokokchung Transmission line on the verge of completion. However, due to non-availability of adequate corridor for crossing the existing 220kV Mariani – Mokokchung TL by the newly constructed line, swapping of the two lines near the substation and exchange of the bays at the substation is required. Matter has also been intimated to DOP.

The swapping of the transmission lines are proposed to be carried out from 07.09.2022 and since one number tower erection along with de-stringing and re-stringing of both the lines are required to be carried out only after obtaining shutdown of the existing 220kV D/C Mariani-Mokokchung TL. The minimum shutdown requirement shall be of 18 days.



As per the decision of the 195th OCCM, special meeting was convened on 20th Oct, 2022 to resolve the issues w.r.t the bay exchange and line swapping for 220kV New Kohima – Mokokchung TL with 220kV Mariani-Mokokchung line 1. The deliberation of the said meeting is as follows:

- POWERGRID informed that after bay swapping, the changes in Bays will be as follows:

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Bay No	201	204	207
Before Bay Exchange / Existing	Mariani II	Mariani I	New Kohima
After proposed Bay Exchange	New Kohima	Mariani II	Mariani I

The owner of Bay no 207 shall remain with DoP, Nagaland only while Bay no 201 and 204 will remain with POWERGRID.

- Since transfer of assets is not possible, it was requested that NERTS and DoP, Nagaland may have a bilateral agreement for O&M of their respective bays.
- CTU connectivity agreement shall not be required.
- NERTS to confirm with the RIO w.r.t the clearances required for charging of the Bays after the proposed changes are made, since there is an addition of two towers (AP293 and AP294) for the diversion of 220 kV Mariani – Mokokchung I and II Line.
- NERTS to adhere to the PTCC clearance as per the CEA’s guidelines.
- Since the proposed configuration allows for double OPGW at tower AP-159, its collapse may make the system vulnerable. NERTS mentioned that the same shall be reviewed.
- Various undertakings/compliances (Protection, Telemetry, and Metering etc.) were requested by NERLDC to be duly filled by NERTS before FTC.
- Necessary changes to be done by NERTS in the SCADA & metering database.
- SIO clearance dated 28.02.22 submitted by DoP, Nagaland for Bay no 207 mentions New Kohima Bay and has no validity. Also, the same has not been energized till date. DoP, Nagaland prior to FTC, may obtain clarification from SIO regarding validity of SIO clearance and swapping of the inspected Bay (207) for New Mariani II Line.

In the 196th OCCM, regarding agreement on O&M of respective bays of DoPNagaland and PGCIL, DoP Nagaland stated that it will be finalized soon, and PGCIL have already provide bay equipment details to Nagaland.

NERLDC pointed out that long outage of Mariani-Mokokchung DC is posing threat to power system of Nagaland and multiple extensions of shutdown is also affecting other shutdowns related to Nagaland power system.

PGCIL rebutted that the extensions were due to delays in obtaining RIO clearance. It was informed that RIO inspection has been completed on 24.11.2022 and the clearance is expected to be received soon.

Deliberation of the sub-committee

CGM(AM), NERTS intimated that POWERGRID is only suggesting for handover of bays for maintenance purpose, while original ownership shall remain in force. He assured that PGCIL will approach the higher authorities of DoP Nagaland for finalization of the agreement at the earliest.

Moreover, Sr GM NERLDC highlighted that the 220kV Mokokchung-Mariani line II can be charged as existing and new bay for Mariani II lies with PGCIL only and availability of at least one circuit of 220kVMokokchung-Mariani D/C shall improve the security and reliability of Nagaland grid.

Member secretary, NERPC stated that a special meeting will be organized soon by NERPC to discuss the issues in a holistic way.

The Sub-Committee noted as above

Action: DoP Nagaland.

B.16. Furnishing daily data of generation, demand and shortage by State, ISGS and IPPs:

Gross generation and ex-bus generation of all State Generators, ISGS (Inter State Generating Station) & IPP (Independent Power Producer) for each day is to be furnished to MOP/NLDC which was discussed in 193rd OCC meeting held on 12th August 2022.

In addition to the above, hourly demand and shortage data of the states is also required to be furnished to NLDC/MOP.

In view of the above it is requested to furnish above data in the format specified (as sent in mail dated 07.11.2022)

In 196th OCCM Manager NERLDC intimated that most of the states do provide gross generation data for each day but no net generation data is provided. Arunachal Pradesh is not providing any data at all. Even some ISGSs are not providing the net generation data. After detailed deliberation the forum strongly urged the states and ISGSs to provide required generation data and hourly demand and shortage data of the states on daily basis.

Deliberation of the sub-committee

Manager NERLDC intimated the forum that most of the ISGS and states are furnishing the required data on daily basis except the following exclusions:

- i. Arunachal Pradesh: Not providing gross & net generation data and not providing hourly demand and shortage data. Not sending the daily PSP data sheet.

- ii. Mizoram: Not providing net generation data. NERLDC also mentioned that Mizoram is sending their data sheet in the morning around 6-6:30 hrs whereas the reports need to be prepared during the late night hours. Thus, NERLDC urged Mizoram to send the said data sheet by 01:00 hrs as being done by other states and ISGSs.

Arunachal Pradesh and Mizoram assured the forum to look into the issues and send the required data at the earliest. MS, NERPC exhorted both the states to send the data regularly.

The Sub-Committee noted as above

Action: all utilities.

B.17. Related to commissioning of 220 KV downstream transmission line of DOP Nagaland at New Kohima (400/220kV) SS

Concerns of KMTL:

1. OPGW wire for 220 KV downstream Transmission line has not been installed so it is very difficult to achieve the protection of 220 KV transmission line by using line differential Relay. As line length is 10 KM (Approx.) for 220 KV Transmission line therefore Line differential Relay has been considered for both the end.
2. PLCC & SDH panel has not been installed at 400/220 KV GIS substation, New Kohima till date.
3. 220 KV downstream transmission line conductor parameters yet to receive from DOP, Nagaland for Relay setting at 400/220 KV GIS substation, New Kohima

In 196th OCCM, Manager, KMTL requested the forum to ensure installation of OPGW, LDP, PLCC, SDH equipments in the 220kV downstream line. He also requested for providing parameters to KMTL for finalization of settings.

Member Secretary, NERPC requested POWERGRID to include OPGW for the 220kV New Kohima – Zhadima D/C under regional scheme – State Sector and proceed for early implementation as the line is in final stage of commissioning. NERTS agreed to the same.

NERTS and DoP Nagaland may please update

Deliberation of the sub-committee

EE, SLDC, DoP Nagaland intimated that stringing of the 220kV New Kohima-Zhadima TL is completed but telemetry is not present due to non-availability of OPGW in the line, for which he seek assistance of PGCIL to install the OPGW. After detailed

deliberation the forum requested PGCIL to take the matter at the earliest as line is ready to be charged. PGCIL concurred to the request.

The Sub-Committee noted as above

Action: POWERGRID.

C. NEW AGENDA ITEMS

Agenda from NERPC

C.1. Change in timeslot-wise allocation to uniform allocation in respect of Unallocated quantum

CEA vide GM division letter dated 26.10.2022 has instructed WRPC, ERPC & NERPC to change methodology for allocation of unallocated power in respective region as given below:

- (i) Uniform allocation of unallocated power in Region Pool (after accounting for specific allocations) to various beneficiaries in place of the present timeslot-based allocation, and
- (ii) Re-distribution of unallocated quota of CGSs in Region Pool so that all the beneficiaries are assigned unallocated share from all CGSs, to facilitate availing of URS power.

This methodology is already followed in Northern and Southern region.

In view of above, NERPC has worked out the reallocation of unallocated share from all CGSs from timeslot-based (ie, Peak & Off-peak, in respect of NER) to uniform wt. avg allocation round the clock. The reallocation of Unallocated power is at **Annexure-C.1**

The forum is requested to concur on the proposal so that NERPC can inform CEA for vetting for implementation.

Deliberation of the sub-committee

SE, NERPC stated that the uniform allocation of unallocated power would facilitate smooth diversion/temporary reallocation of URS power to other states/Beneficiaries. After detailed deliberation the forum agreed to the proposal.

The Sub-Committee noted as above

Agenda from NERLDC

C.2. Non-availability of transfer bus at Ranganadi HEP:

On 02nd December 2022, Emergency Shutdown of 132 kV RHEP – Pare I was requested by Ranganadi to attend to Oil pressure drop issue is CB. NERLDC therefore requested Ranganadi to use their transfer bus for keeping 132 kV RHEP – Pare I in service. However, as per mail attached in **Annexure-C.2.1**, Ranganadi declared that transfer bus was not available and that Ranganadi is unable to transfer elements online.

This is not the case as can be seen in the SLD (**Annexure-C.2.2**) provided by Ranganadi HEP. Also, non-availability of switching live elements to other bus and non-usability of transfer breaker/ isolator is a matter of concern as this led to outage of line in the above case.

It may also be noted that the same issue was faced during black start of RHEP on 28.11.2022 (**Annexure-C.2.3**). It is therefore requested that NEEPCO may look into and rectify the same at the earliest.

Deliberation of the sub-committee

NEEPCO apologized for non-availability of the facility of switching live elements from one bus to another bus. Further, NEEPCO informed that the transfer Bus at RHEP is not functional. The reason cited was that the bay equipments to be used for transfer of elements were very old and non-functional and also no spares were available. NEEPCO mentioned that elements of the transfer bus have been dismantled and physically no transfer bus is available at the site. Moreover, NEEPCO assured the forum to that issue will be rectified during the R&M works of RHEP and requested for regulatory exemption till then.

Meanwhile NERLDC will modify the SLD of RHEP SS considering non-availability of Transfer Bus, so that operation of grid elements can be assessed and estimated correctly.

The Sub-Committee noted as above

Action: NEEPCO.

C.3. Non-compliance of RLDC instructions and IEGC by Meghalaya:

Post OCC Shutdown of 160MVA 220/132kV ICT 1 at Byrnihat was approved to be availed on 6th Dec 2022 by Meghalaya. Due to the said shutdown, after detailed system studies planned shutdown of 132 kV Umium stg1-Umium Stg 3 ckt 1 on the same day was deferred from NERLDC, in view of system reliability and security of the grid. The

information regarding the said deferment was also provided in D-1 approved shutdown list of NERLDC circulated on 5th Dec 2022.

On the day of shutdown, while SLDC Meghalaya requested for the opening code for ICT 1 at Byrnihat, NERLDC control room had reiterated the fact that planned shutdown 132 kV Umium stg1-Umium Stg 3 ckt 1 shall not be allowed if the shutdown of ICT 1 at Byrnihat is availed. Meghalaya availed the shutdown of ICT 1 at Byrnihat with the said condition at 09:03 hrs of 6th Dec 2022.

However, even after multiple information from NERLDC regarding deferment of shutdown, Meghalaya availed the shutdown of 132 kV Umium stg1-Umium Stg 3 ckt 1 at 09:33 hrs of 6th Dec 2022 without any consent and opening code from NERLDC. Such action from Meghalaya is a strict violation of IEGC Regulation 5.2.c. Such action also endangers the security and reliability of the grid.

Encl.: **Annexure-C.3**

Deliberation of the sub-committee

SLDC Meghalaya apologized for their non-compliance and assured the forum to refrain from such practices in future

The Sub-Committee noted as above

C.4. Non-compliance of RLDC instructions and IEGC by Tripura:

On 11-12-2022, at around 23:58 Hrs, both GTG and STG at Monarchak were desynchronized. However, in the D-1 list, the Planned Shutdown was deferred due to non-receipt of D-3 confirmation form your end.

At around 20:30 Hrs, NERLDC had telephonically informed SLDC Tripura that the shutdown will not be allowed from 00:00 Hrs of 12-12-2022 due to non-receipt of approval. However, the units were still taken out of service despite above conversation without taking operating code. It is also to be noted that the D-1 Shutdown list was sent to respective stakeholders at 10:17 Hrs of 11-12-2022 which is way before the Shutdown timing of the Units.

Such action from Tripura is strict violation of IEGC Regulation 5.2.c. It is to be noted that the above shutdown has effect on Bangladesh (Comilla) load (international load) for which no consent has been received from Bangladesh.

Encl.: **Annexure-C.4**

Deliberation of the sub-committee

SLDC Tripura apologized for the non-compliance and assured the forum to refrain from such practices in future

The Sub-Committee noted as above

C.5. Publication of NER Reactive Power Management Manual 2022:

As per the direction of Hon'ble CERC, NERLDC prepares and updates the NER Reactive Power Management Manual on annual basis. Accordingly, for this year, NERLDC has updated the NER Reactive Power Management Manual 2022. The draft version of the document has been circulated to all constituents of NER on 8th Dec 2022 via email. All constituents are requested to kindly provide your feedback and comments on the same latest by 20th Dec 2022 so as to enable us to publish the document as per the timeline specified by Hon'ble CERC.

Deliberation of the sub-committee

Manager NERLDC requested constituents to go through the document and provide any feedback positively before 20th Dec, 2022.

The Sub-Committee noted as above

Action: all utilities.

C.6. Telemetry and Communication system issues of projects commissioned under NERPSIP & Comprehensive schemes:

A number of new substations and transmission lines have been commissioned under NERPSIP and Comprehensive Schemes recently however, there is no telemetry and communication system is present at these sites. As unavailability of telemetry data is a major concern, the concerned utilities are requested to expedite telemetry installation works of their respective substations/transmission lines as early as possible. The list of substations and transmission lines not having telemetry is mentioned as below:

Sl. No.	Scheme	Name of Element	Name of Owner	First Time	Remarks
				Charging Date	
1	NERPSIP	Mohanpur	TSECL	27.08.21	Data not in NERLDC SCADA

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2	NERPSIP	132 kV Mokokchung -Mariani line LILO at Longnak and 132kV Bay & 33kV GIS Bay and associated equipments at Longnak Substation	DoP, Nagalan d	16.07.2022	Data not in NERLDC SCADA (Longnak charged through 132 kV Mokokchungn- Longnak)
3	NERPSIP	132/33kV Tangla GSS	AEGCL	08.06.2022	Data not in NERLDC SCADA
4	NERPSIP	132/33 kV, 31.5 MVA Power transformer at Ambassa substation	TSECL	21.06.2022	Data not in NERLDC SCADA
5	NERPSIP	132kV Sonabil- Tezpur line 1 132kV Sonabil- Tezpur line 2	AEGCL	06.08.2022	Reporting with wrong value
6	NERPSIP	132/33 kV Tezpur Substation	AEGCL	22.09.2022	Data reporting partially in NERLDC SCADA

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7	Comprehensive	132/33KV Bay extension and 16 MVA Transformer at Dukumpani(Tenga) Substation	DoP, Arunachal Pradesh	21.10.2022	Data not in NERLDC SCADA NERLDC remarks: The exploration of telemetry of real time data from FRTU and VSAT devices already installed at 132 kV Dukampani (Tenga) S/s may be carried out in near future. PG reply: As advised, possibility for data communication through FRTU using existing VSAT or other broad band devices shall be explored till the OPGW link of Balipara-Khupi-Kimi is completed.
8	NERPSIP	132 kV Rabindranagar - Rokhia line	TSECL	22.07.2022	Line not in NERLDC SCADA (line was test charged & currently not in service)

9	NERPSIP	220 kV New Kohima Bay (207) at Mokokchung	DoP, Nagalan d	-	Modelled: Bay to be swapped
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Also, it is to be ensured that no substation/transmission line is commissioned in NER grid without telemetry and communication system for reliable operation.

Deliberation of the sub-committee

1. Manager NERPSIP stated that SAS configuration at Mohanpur SS is completed but there is a break in OPGW of the Mohanpur-Dhalabil line, which is under scope of TSECL. The forum requested TSECL to rectify the issue at the earliest.
2. EE, SLDC DoP Nagaland stated that telemetry and communication is absent due to non-availability of OPGW along the 132kV Mokokchung-Longnak Line. He requested NERPSIP to undertake OPGW installation from LILO point of Longnak to Mokokchung under its scope. After detailed deliberation, the forum decided to include the link i.e. 132kV Mokokchung – Longnak(LILO) point with matching end equipments at Mokokchung under Reliable Scheme being executed by NERTS. Further the forum requested NERTS to commission the same at the earliest with post-facto approval by TCC/RPC.
3. Manger NERPSIP updated the forum that custom clearing certificate will be obtained by Dec'22, after which material will, be dispatched and work will be completed by April'23. The forum categorically noted that no FTC will be given for the SS or any element without provision of Telemetry and Communication.

The Sub-Committee noted as above

Action: POWERGRID.

C.7. Regarding Railway Traction details of NER

AEGCL vide mail to NERLDC dated 28th Nov'22 furnished information regarding railway electrification projects in Assam. It has been mentioned that a total of 28 nos. of railway traction lines are being constructed out of which five nos. of lines are under operation with a sanction load of 5 MVA per line.

Therefore, AEGCL is requested to furnish the following details for updation of database at NERLDC:

- a. The date of commissioning (COD) of the lines under operation
- b. The average load fed from per line.

- c. The tentative commissioning timelines of the remaining lines
- d. SLD of ASEB and Railway end

Deliberation of the sub-committee

SLDC AEGCL intimated that data regarding points a, b and d have already been sent and data on point c will be submitted soon.

The Sub-Committee noted as above

Action: AEGCL.

Agenda from NERTS

C.8. PLCC & protection related issues at 132kV Tipaimukh S/s

As was discussed in 194th OCC, 48V DC system has been revived for both Aizawl and JIRIBAM bays at Tipaimukh S/s (as confirmed from Manipur state Power Department), however the status of PLCC healthiness of both the Bays at Tipaimukh needs to be ensured, without which the functionality of Carrier Send/ Receipt leading to successful AR cannot be implemented.

Thereby, the Healthiness of PLCC along-with 48V DC System & Protection settings may kindly be ensured to maintain better Grid reliability.

Deliberation of the sub-committee

SLDC Manipur stated that a team is scheduled to visit the Tipaimukh SS in the last week of December'22, to diagnose the problem and stated that assistance from NERLDC and NERTS is required. CGM PGCIL assured MSPCL to extend necessary support and to send one PLCC engineer from Aizawl SS to help rectify the problems.

The Sub-Committee noted as above

Action: MSPCL, NERTS.

C.9. REQUIREMENT OF BUILDING AT UMRANGSHO TOWNSHIP FOR ESTABLISHMENT OF OFFICE AND RESIDENTIAL SETUP BY POWERGRID FOR O&M OF POWERGRID BAYS AT KHANDONG & KOPILI

In reference to the discussion held in 23rd TCC/NERPC Meeting held on the subject matter, NEEPCO agreed to provide the infrastructure for establishment of Office-Cum-Residential set up by providing the following:

1. Office Set up – 4 Rooms (2 – Office, 2 – T&Ps / Testing Instruments etc.)
2. Staff accommodation – 7 Rooms, Kitchen & Dining space.

During Joint visit of POWERGRID and NEEPCO representatives, it is observed that there is requirement of major renovation / repair is required with alteration. Approximate financial implication may be considered as INR 50 Lakh for the same.

Matter was further informed to NEEPCO vide letter dtd 29/11/22. Reply in this regard is yet to be received. Further, it is understood that repairing work may not be taken up by NEEPCO.

Thus to facilitate POWERGRID for establishment of Office and Residential Set up at Umrangsho for Maintenance of assets of POWERGRID at Kopili and Khandong, expenditure on repairing of quarters (estimated around INR 50 Lakh) may be allowed to be booked under NERSS-III Project.

Deliberation of the sub-committee

CGM PGCIL intimated the forum that apart from 50Lakh,required for renovation and repair, additional 20 lakhs will be required for furnishing works. Hence a total expenditure of INR 70Lakhs is proposed to be booked under NERSS-II project. After detailed deliberation the forum referred the matter to the 47thCCM.

The Sub-Committee noted as above

Action: NERTS.

C.10. Dedicated 33KV Feeder for Kumarghat S/s for reliable AC Supply.

132KV Kumarghat Sub-station now utilizes 02 Nos 11KV and 33KV Feeders for local AC Supply for Station premises and Equipment's. The existing power supply is not dedicated for POWERGRID but routed through other outlets, increasing vulnerability leading to tripping, which reduce the AC Supply reliability and thus instability in the System.

Accordingly, the prospect of availing a dedicated 33KV feeder for AC Supply to Kumarghat S/S (PGCIL) only is to be permitted with due support and consent of State Power Department TSECL.

Deliberation of the sub-committee

Sr.Manager, TSECL provided in principle approval for providing a dedicated 33kV feeder to Kumarghat SS (PGCIL) from PKBari SS, and asked PGCIL to make a direct request to the transmission division for further processes.

The Sub-Committee noted as above

Action: NERTS, TSECL.

Agenda from NEEPCO

C.11. FGMO response at RHPS and DSM regulation

After implementation of new DSM regulation implemented wef 00:00 Hrs of 05.12.2022, on 5th Evening very high frequency in the order of more than 50.30 Hz was observed for prolonged time in the grid. Therefore, in RHPS, due to FGMO action, generation of RHPS per units generation came down nearly upto 120 MW from 135 MW in each unit resulting in deviation of more than 5% of schedule generation. The Operation Control Room Engineers immediately communicated to NERLDC via SIP phone and requested permission to Put off the FGMO so that generation schedule could be maintained. But NERLDC is barred from doing so.

Therefore, there may be a chance of a huge penalty for RHPS/NEEPCO due to deviation beyond 2% as per the new DSM regulation.

In view of the above, the matter is placed as an agenda item for discussion for better clarity of the generators in the 197th OCC meeting and also requesting a solution of the same and waiver of penalty due to no fault of RHPS, if arises so.

Deliberation of the sub-committee

ED, NEEPCO raised the concern that power plants are prone to pay heavy penalties under the new DSM regulation due to involuntary FGMO response of the governors. NHPC also echoed the concern. Manager, NERLDC presented the SOR behind the DSM regulation pertinent to the issue raised. In the SOR, CERC has accepted that some deviation from schedule due to FGMO/RGMO response is inevitable as the response is electromechanical and automatic. To address this situation following provisions have been put in the regulation

- I. In case of under injection, generator has to pay for underproduction at the rate of reference charge only for deviation upto 2%.
- II. In case of over injection, generator will be paid back for overproduction at the rate of reference charge for deviation upto 2%.

Also, CERC noted that with improving technologies generators are gaining more control over the generation output and they are well poised to contain the deviation within the 2% band when averaged out over 15 minutes time block.

ED, NEEPCO highlighted that although the RoR plants in NER have some provision for pondage, they have lesser control over output thus being more vulnerable for paying penalties.

Member secretary, NERPC noted that FGMO response remains active for less than a minute and then secondary frequency response becomes active to restore the deviated frequency which may last up to 15minutes. During these responses (primary and secondary) the generation output will certainly deviate from the scheduled value but it has to be empirically observed that whether the output during the frequency responses cross the 2% margin when averaged out over 15minutes. Further, he advised the generating utilities to record the data of frequency responses occurring over two to three months and get it analyzed by NERLDC/NERPC for possible violation of the 2% margin. Further decisions will be taken after the holistic analysis is done over the span of two three months.

The forum concurred.

The Sub-Committee noted as above

C.12. Regarding construction Power 132KV line for up-coming TATO -I, II and HEO Hydro Electric Power Project.

NEEPCO is all set to start the Project activity of Tato - I, II and Heo H.E Project at Shi Yumi district of Arunachal Pradesh from this financial year. In order to execute the following point may be looked into.

1. Power Evacuation point : NEEPCO shall initially harness 1125 MW from these three projects and two more project namely Naying and Hirong is in pipeline. Therefore, power evacuation point for all the project may located at Tato-II Power Site.
2. Initially to start the project activity it is required to have 132 KV at Tato Shi Yumi district which will be initially utilized for construction power and after can be utilized for power evocations. A slide is enclosed herewith.

It is understood that there is one 132KV line under construction fromKamba to Mecchuka via Tato under the Comprehensive Scheme. One substation either at Heo or Tato I power house can also be planned under that Scheme. Else the line please be constructed at a faster pace and NEEPCO can make a LILO at a suitable location at Tato Shi Yumi district to cater the construction power of the said upcoming H. E. Projects in coordination with DoP, Arunachal Pradesh.

In view of the above, the above proposal is placed in the 197th OCC meeting of NERPC for proper deliberations and subsequent coordination amongst DOP, Arunachal Pradesh, POWERGRID and NEEPCO under the aegis of NERPC.

Deliberation of the sub-committee

After detailed deliberation the forum referred the matter to upcoming CMETS meeting.

The Sub-Committee noted as above

Action: NERPC

Agenda from CTUIL

C.13. Implementation of Automatic Meter Reading (AMR) in North Eastern Region.

- a. Government of India (GoI) has set a Renewable Energy (RE) target of 500GW by 2030. The need for implementing 5-minute meters along with AMR system for regional energy accounting and settlement at the Inter State level has been recommended in FOR sub-group report ,2018 considering the variability of load due to large RE penetration in the coming years. Subsequently, need of AMR has also been discussed in RPC forums considering the high-volume & variable meter data and processing of the same in a very efficient manner.
- b. A PAN India pilot project on 5-minute metering was implemented as per the directive from Honourable CERC. A report on the pilot project covering implementation aspects, challenges and suggested way forward has been submitted by POSOCO for perusal of the Hon'ble Commission and further directions.
- c. Moreover, in view of the new DSM regulation 2014 and its amendments, which are more stringent, there is a need expressed by States to get streaming online instantaneous MW data at a user configurable rate (minimum 1 min) at SLDCs via AMR system.
- d. In view of the above a meeting was held on 19.11.2020 chaired by Chairperson, CEA with the participation from PGCIL, CTU, POSOCO, RPCs etc. on the subject of Telemetry of real time Active Power (MW) data to SLDCs. After deliberation in the meeting, it was decided to constitute a committee for finalizing the Technical Specification (TS) of the Interface Energy Meters along with Automatic Meter Reading and Meter Data Processing system for ISTS metering points.
- e. NPC Division, CEA vide letter dated 02.12.2020 had constituted a joint committee comprising the members from each RPC, CEA, CTU/PGCIL & POSOCO "to prepare

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the Technical Specifications (TS) of the 5/15 Minute Interface Energy Meters (IEMs) with Automatic Meter Reading (AMR) and Meter Data Processing (MDP) for interstate transmission system at PAN India basis”.

- f. NPC Division, CEA vide letter dated 6th July 2022 had circulated the final copy of “Technical Specification (TS) of Interface Energy Meters, Automatic Meter Reading system and Meter Data Processing system” provisioning all the requirements mentioned above.
- g. In reference to the above and also as per the draft IEGC 2022 for implementation of AMR project for all the five regions; the proposal from CTUIL for implementation of same in North Eastern Region is provide below for deliberation.
- h. MDP system which is also part of the above TS mentioned in point (v) above shall be implemented by NERLDC/POSOCO by their own and would match the timeline schedule with AMR project.

Installation of new Interface Energy meters, AMR system under the scheme “5 min Interface Energy Meter along with AMR system”

S.No.	Items	Details
1.	Name of Scheme	Supply and installation of 5 min Interface Energy Meter along with AMR system - North-Eastern Region
2.	Scope of the scheme	<ol style="list-style-type: none"> 1. Supply and installation of 5 min Interface Energy Meters for all ISTS metering points of North Eastern region. 2. Supply and installation of AMR system along with DCU, Ether net Switch and other accessories at substation end and AMR software along with servers, database, printer, firewall etc. at RLDC/RPC end to receive 5 min load profile data in auto mode. 3. Provision of streaming online instantaneous MW data at a user configurable rate (minimum 1 min) at SLDCs via AMR system. 4. AMC for complete AMR system for 10 years <p>The complete scope of AMR scheme shall be as per the Technical Specification (TS) circulated by NPC Division, CEA vide letter dtd. 6th July 2022.</p>
3.	Conceptual Architecture of AMR connectivity of ISTS Meters	Provided below

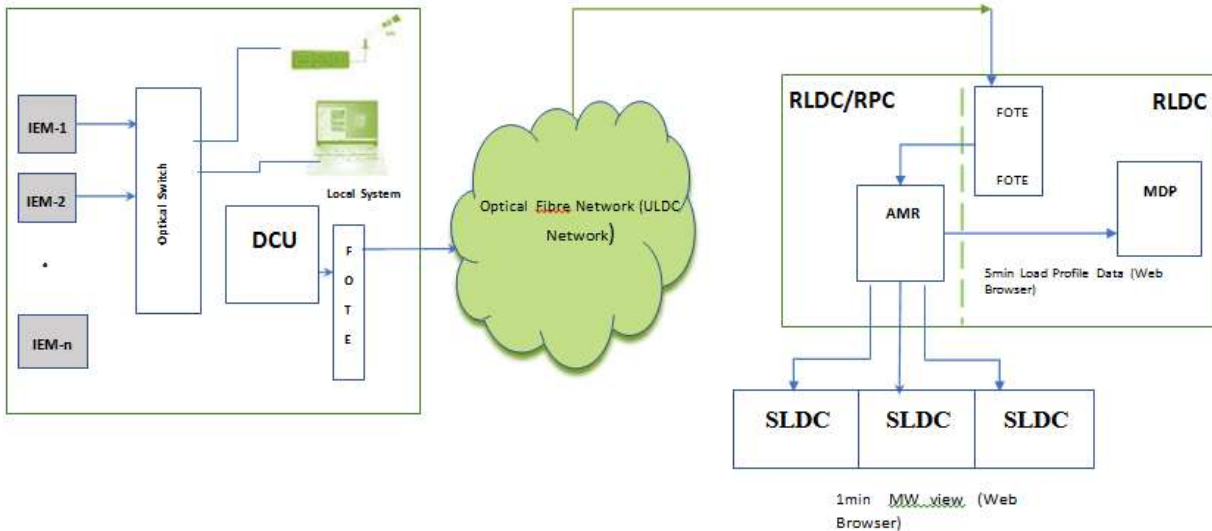
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4.	Objective/Justification	<p>For Indian Power system, commercial settlements of energy generation and consumption are being computed through Availability Based Tariff (ABT) and Deviation Settlement Mechanism (DSM) which are in vogue for energy accounting.</p> <p>Availability Based Tariff was implemented in India in 2002/2003 considering the settlement period as 15-min.</p> <p>Government of India (GoI) has set a Renewable Energy (RE) target of 500GW by 2030. The need for implementing a 5-minute scheduling, accounting and settlement at the Inter State level has been recommended by FOR Sub-Group report, 2018 considering the variability of load due to large RE penetration in the coming years. A PAN India pilot project on 5-minute metering was implemented as per the directive from Honorable CERC. A report on the pilot project covering</p>
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		<p>Implementation aspects, challenges and suggested way forward has been submitted by POSOCO for perusal of the Hon'ble Commission and further directions. This issue was discussed in OCC/TCC/RPC meetings at regional level and it was discussed to replace the entire fleet of existing SEMs (15-min Block) with Interface Energy Meters (5-min Block) and implementation of Automated Meter Reading (AMR) and Meter Data Processing (MDP) system for efficient and faster accounting.</p> <p>Moreover, in view of the new DSM regulation and its amendments, which are more stringent, there is a need expressed by State to get streaming online instantaneous MW data at a user configurable rate (minimum 1 min) at SLDCs via AMR system. This instantaneous MW data is only for the purpose of taking actions/decisions in real time for grid monitoring & discipline.</p>
5.	Estimated Cost	Rs. 75 Crore (approx.)
6.	Implementation timeframe	Approx. 30 months from gazette Notification.
7.	Implementation Mode	Through POWERGRID-RTM

Substation



Deliberation of the sub-committee

CGM, CTUIL intimated that upfront cost on the states for the project will be INR 28crore and recurrent cost will be INR 3crore per year.

After detailed discussion, the forum provided in-principle approval to the project. Member secretary, NERPC requested the States to go through the implications of the project positively and stated that if more clarification needed the same will be discussed thoroughly in next TCC meeting.

The Sub-Committee noted as above

Action: all utilities.

D. ITEMS FOR STATUS**D.1. Implementation of projects funded from PSDF:**The status as informed in 197thOCC:

State	R&U scheme	ADMS	Capacitor Installation	SAMAST**	Line Differential Protection
Ar. Pradesh	Package-I (Diagnostic tools) Complete in all respects. P-II (for PLCC & communication) Supply completed. Erection WIP. 50% requisition submitted. P-III (Substation equipment) Agreement signed and 10% requisition submitted. Total 90% requisition by Apr'22. Completion by Dec'22. (Approval from TSA and Account opening in 3 months)	Project completed in all respects.	-	30% requisition submitted. Amount not received in the TSA account.	-
Nagaland	Completed in all respects.	Work completed in all respects. UC submitted.	-	30% requisition submitted	Lines identified. Under DPR preparation stage.
Mizoram	Final 10% disbursed. UC to be submitted.	Work completed in all respects. Remaining part of final 10% to be disbursed ASAP.	To reply to TESG queries.	30% requisition submitted.	Revised DPR including both 132kV Aizawl-Luangmualan and 132kV Khamzawl-Khawiva to be submitted.
Manipur	Package-II: completed Package-I: all stations complete except Ningthoukhong.	Work completed in all respects. UC submitted in Oct'21.	WIP.	10% disbursed for IT portion, no disbursement for Meter,	Revised DPR for LDP of 132kV Imphal-Yurembam-III to be submitted by

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	By May'22.			AMR portion. 20% disbursement for IT portion after completion of 3 rd milestone. 30% to be disbursed for Meter, AMR portion	June'22.
	33kV System Integration with SLDC	In tendering stage			
	Reliable Communications for grid connectivity	In tendering stage			
Tripura	Completed. Final UC submitted on 04 th May'22.	Final 10% requisition submitted.	Not relevant in present scenario with commissioning of ISTS lines. Issue dropped	10% successfully disbursed. 20% fund reversed back from vendor account. Will be resolved soon.	For 132kv 79Tilla-Budhjungnagar line and for Rokhia link LDP at own cost. Tendering undergoing. DPR preparation for rest of the lines
Assam	Work completed except CRP, SAS work in 8stations which have been retendered and awarded to M/s SIEMENS. Completion by Dec'22	Project completed in all respects.	-	30% funds yet to be fully disbursed. 60% requisition sent.	Lines identified. Under DPR preparation stage.
Meghalaya	MePTCL – completed in all respects. MePGCL – Completed in all respects.	Project completed in all respects.	-	90% works completed. Communication pending.	All works except OPGW done

In the 194th OCC, CGM, SLDC, AEGCL requested for extension of Milestone date for SAMAST. The forum unanimously decided that in view of the pandemic restrictions throughout NER in 2021 the extension is to be granted. Member Secretary, NERPC informed that originally the Project Completion deadline as per PSDF was 12 months, however in LoA target is completion by 18 months. The forum decided to extend the milestone date(s) and completion/Go Live/DoCO date(s) by 3 months, with target completion by 10th November'2022.

D.2. Status update of important grid elements under prolonged outage impacting system operation:

Sl. No	Element	Owner	Status as informed in the 196 th OCCM	Latest Status
1	132kV Mariani – Mokokchung (out since April'2008)	AEGCL	Non clearance due to persisting funding issue	Non clearance due to persisting funding issue
3	132kV Roing-Pasighat (charged through ERS tower)	NERTS	By Mar'23	March'23
4	220kV Misa-Kopili D/C, 220/132kV ICTs at Kopili, 132kV Khandong –Kopili D/C(out since Oct'19)	NEEPCO/ NERTS	Nov 22 As decided, under NERTS Scope, restoration of ICT#2, one ckt of 132kV KhandongKopili is targeted for restoration. As decided, Control & Relay panel for the same shall be placed in SPR being constructed by NEEPCO. After readiness of SPR, one month shall be required for commissioning.	Refer to agenda item B.8
5	132kV Srikona – Panchgram	AEGCL	DPR approved by the standing finance committee of Govt of Assam. Also, Administrative approval obtained.	Tender floated on 21.11.2022
6	400kV Imphal – Thoubal-I and 315MVA 400/132kV ICT at Thoubal	MSPCL	RoW, litigation pending in court.	RoW, litigation pending in court.

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7	63MVAR Bus Reactor at Byrnihat to be replaced with 80MVAR Reactor	MePTCL	Reactor dispatched from the Siemens Factory on the 12th October 2022. Will reach by November 2022. Logistics issue hampering the work. Tentatively by Dec,22.	Logistics issue hampering the work. Tentatively by Dec,22.
9	400kV Silchar-Misack DC (permanent restoration)	NER-II TL	Restoration work (ERS) of both the ckt done. Work underway for permanent restoration. Mar'23	Restoration work (ERS) of both the ckt done. Work underway for permanent restoration. Mar'23

D.3. Status of commissioning for upcoming projects:

Sl. No	Name of the element	Utility	Status as informed in 196 th OCC meeting	Latest Status
1	132kV Monarchak-Surjamaninagar	TSECL	By March 23	March'23
2	PLCC for 132kV Loktak-Ningthoukong and 132kV Loktak-Rengpang(existing lines)	MSPCL	PLCC equipment installation completed at Rengpang end. commissioning pending. PLCC for Loktak-Ningthoukhong to be taken alongwith with 132kv Lok-Ningthoukhong 2nd ckt	Under R&M by NHPC
3	Construction of 2 nd bay at Balipara for 220kV Balipara-Sonabil-2	AEGCL	SAS integration completed. Ready for charging	SAS completed. Partial Cross Jumper od Sonabil-Balipara D/C line corrected in shutdown on 3rd dec. Further, tests before charging being done as per PGCIL requirement, to be made ready in 3-4 days.
4	Upgradation of 132kV Lumshnong – Panchgram line	MePTCL	Reconductoring works of Lumshnong-Panchgram line has started on the 13th October 2022. However, Work halted. Will resume	Umiam reconductoring works about to be completed, s/d after that

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			once the upgradation work of UmiamstI-III DC line is completed.	
5	PLCC for 132kV Karong-Kohima. PLCC at Kohima	DoP Nagaland	PLCC panel at Karong has also to be changed as to ensure same make at both the substations. Awaiting sanction from PSDF	Awaiting sanction from PSDF
6	132kV Loktak-Ningthoukhong-II	MSPCL	RoW issue at two spans, resolution underway	Same status, no definite time limit
7	132kV Roing-Chapakhowa	NERTS	<p>Work is in progress with a target for completion of the line by Dec'22.</p> <p>Constraints/Challenges:</p> <ol style="list-style-type: none"> Severe Obstruction from Forest dwellers in DeopaniRF(20 loc.) Severe ROW in 21 locations in Jia&Ezengo areas. Immediate requirement of releasing compensation. Approval for final compensation awaited from District Admn. 	Work is in progress with a target for completion of the line by Dec'22.
8	Re-conductoring 220kV BTPS-Salakati D/C	NERTS	Circuit 1 reconductoring under progress, to be completed by 2.12.2022. Circuit 2 will be reconducted thereafter	Shutdown of ckt 1, for reconductoring, was taken , but only ground work was done by PGCIL. Shutdown will be taken next month
9	420kV 80MVAR Bus Reactor	NEEPCO	Dec'2023	Dec'23
10	220kV Killing - Mawngap	NERPSIP	RoW not yet resolved at 05 locations (01 foundation & 04 erection).	RoW at one location yet to be resolved. Matter is regularly taken up with higher administration

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			Stringing RoW in 01 section in Mawphlang area, East Khasi Hills to be resolved.	level.
11	220kV Samaguri - Mariani-I	AEGCL	FC still awaited in the Samaguri-Khumtai section. While the Mariani-I to Khumtai section is charged	FC still awaited in the Samaguri-Khumtai section. While the Mariani-I to Khumtai section is charged
12	Reconductoring of 132kV UmiamStg-III to UmiamStg-I by HTLS	MePTCL	About 10 Ckt Km has been completed out of 13 Ckt Km.	To be completed before 24 th Dec
13	PLCC/DTPC for 220kV Balipara- Sonabil	AEGCL	Near completion. Will be commissioned along with charging of line 2	Will be commissioned along with charging of line 2
14	220kV AGBPP -Namsai D/C	TBCB		Tender awarded to PGCI. Work started
15	Upgradation of 132kV Surjamaninagar-Surjamaninagar(ISTS), 132kV Bodhjungnagar-SMNagar, 132kV P.K.Bari-Ambassa, 132kV P.K. Bari-P.K.Bari(ISTS)	TSECL	WIP	WIP
16	LILO of 132kV Leshka-Khliehriat-I at Mynkre and Mynkre SS and 33kV downstream at Mynkre.	NERPSIP	Dec'22	Jan23
17	220kV Tinsukia-Behiating D/C	NERPSIP	Jan'23	Jan23
18	LILO of 132kV Kamalpur-Kamakhya& 132kV Kamalpur-Sishugram at Amingaon	NERPSIP	ERS installation work under the scope of AEGCL, work not started yet	ERS installation work under the scope of AEGCL, work not started yet
19	220kV Rangia - Amingaon D/C and 220/132kV 2x160MVA Amingaon S/S	NERPSIP	Jan'23	Jan'23
20	132kV Rengpang-Tamenglong and 132/33kV 4x6.67MVA at Tamenglong at Manipur	NERPSIP	RoW still persisting, Dec'22	Jan'23
21	132/33kV 2x20MVA Gamphazol at Manipur	NERPSIP	Ready for test charging, but telemetry and communication not present which can only be done after	

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			SAS integration. Hence approval of test charging without telemetry requested. NERLDC provide conditional approval subjected to NERPSIP submitting undertaking clearly mentioning the deadline for installing telemetry	
22	132/33kV West Phaileng S/S at Mizoram	NERPSIP	Ready for charging but no line	Ready for charging but no line
23	132/33kV 2x12.5MVA Marpara S/S at Mizoram	NERPSIP	Jan'23	Jan'23
24	132/33kV 2x12.5MVA Lungsen S/S at Mizoram	NERPSIP	Jan23	Jan23
25	132kV Lungsen-Chawngte S/C at Mizoram	NERPSIP	Jan23	Jan23
26	132kV Chawngte - S.Bungtlang S/S at Mizoram	NERPSIP	Dec'22	Dec'22
27	132kV W.Phaileng-Marpara S/C at Mizoram	NERPSIP	Feb23	Feb23
28	220kV Zhadima - Mokokchung at Nagaland	NERPSIP	Lines and bays ready.RIO report awaited.	
29	LILO of 132kV Wokha - Kohima at 132/33kV New Kohima at Nagaland	NERPSIP	Dec'22	Dec'22
30	132kV Wokha-Zunheboto - Mokokchung at Nagaland	NERPSIP	Jan'23	Jan'23
31	132kV Tuengsang - Longleng at Nagaland	NERPSIP	Line ready but Tuensang SS projected to be ready by jan'24	Line ready but Tuensang SS projected to be ready by jan'24
32	132/33kV Amarpur S/S at Tripura	NERPSIP	Jan'23	Jan'23
33	132/33kV Manu(new)			

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	S/S at Tripura	NERPSIP	Jan;23	Jan;23
34	132kV Dharmanagar-Kailashor	NERPSIP	Jan'23	Jan'23
35	132kV Ziro-Yazali and 132/33kV Yazali S/S	POWERGRID-Comprehensive		
36	132kV Yazali - Palin and 132/33kV Palin S/S	POWERGRID - Comprehensive		
37	132kV Palin- Koloriang and 132/33kV Koloriang S/S	POWERGRID - Comprehensive	Dec'23	Dec'23
38	132kV Khonsa - Deomali and 132/33kV Khonsa S/S	POWERGRID - Comprehensive	Dec'23	Dec'23
39	132kV Miao - Namsai and 132/33kV Miao S/S	POWERGRID - Comprehensive	Dec'23	Dec'23
40	132kV Chimpu - Holongi and 132/33kV Holongi S/S	POWERGRID - Comprehensive	Dec'22	Dec'22
41	Lower Subansiri HEP	NHPC	Unit 1 by Jan'23 and Unit 2 by Feb'23	Unit 1 by Jan'23 and Unit 2 by Feb'23
42	400kV Lower Subansiri-BNC line1	PGCIL	Dec'22	Dec'22
43	400kV Lower Subansiri-BNC line2	PGCIL	Feb'23	Feb'23
44	Conversion of MT to DM at (i)132kV Khliehriat, (ii)132kV Badarpur, (iii)132kV Nirjuli, (iv) 132kV Imphal	NERTS	Nirjuli - Decmber'22 Imphal - Feb'23	Nirjuli - Decmber'22 Imphal - Feb'23

D.4. Status of ISTS expansion scheme in NER:

A. Status of downstream 220kV or 132kV network by STUs from the various commissioned and under-construction ISTS substations in NER

Sl.	ISTS S/s	State	Voltage ratio, Trans. Cap	Down- stream Voltage level (kV)	Unutilized bays	Status of ISTS bay	STU Lines for unutilized bays	Status of Lines(as updated in 192 nd OCCM)	
								Date of Award	Completion schedule

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1	New Mariani (POWERGRID)	Assam	400/220kV, 2x500MVA	220	2	Commissioned	New Mariani (POWERGRID) – Diphu (Assam) 220kV D/c line	Preliminary survey completed	By Jan'25
2	New Kohima (TBCB)	Nagaland	400/220kV, 2x500MVA	220	2	Commissioned	New Kohima (TBCB) – New Kohima (Nagaland) 220kV D/c line	LoA Feb'2021	Resolution of issue of high deviation angle at 1 st tower at New Kohima (TBCB) underway. Completion of the line after the said resolution
3	Nangalbibra (TBCB)	Meghalaya	220/132kV, 2x160MVA	132	2	Under bidding	Nangalbibra (ISTS) – Nangalbibra (MePTCL) 132kV D/c (Single Moose) line	Survey awarded	Dec'23

B. Status of 400kV substations and other important elements being implemented by STUs in NER under intra-state schemes to be connected through ISTS

Sl. No.	Substation/Location	Transformation Capacity/Element	Date of Award	Completion Schedule
A	Assam (to be implemented by AEGCL)			
I	Rangia	400/220kV, 2x500MVA	1. EPC Contract Award is Tentatively scheduled in the early half of Dec'2022. 2. Master Plan submitted for approval. 3. Tender under preparation 4. AIB points to be addressed	Dec'2025
a)	LILO of both circuits of Bongaigaon – Balipara 400kV D/c line at Rangia	400 kV, D/C	1. EPC Contract Award is expected by Dec'2022. 2. Tender preparation is completed and is to be reviewed by AIIB	Mar'26 (36 months form date of Award)
II	Khumtai	400/220/132kV, 2x500MVA + 2x160MVA	Survey work to be completed by June'2022. EPC tender to be floated on finalization of fund allotment. 220kV work will be constructed under ongoing AIIB scheme for which contract has already been award to M/S RS infra PVT tech ltd.	May'2026

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a)	Khumtai (AEGCL) – BiswanathChariyali (PG) 400kV D/c line	400kV D/c	Survey work completion by July'22, tender floating after finalization of fund allocation.	220kV LILO part 60% complete. 400kV line by May'2026
III	Upgradation of Gohpur S/s from AIS to GIS	-	1. Notice of Award has been issued on 8 th June 2022 to M/S Sumaja Electro infra Pvt Ltd.	June'2025
a)	2 no. 132kV GIS line bays at Gohpur for termination of LILO of one circuit of BiswanathChariali – Itanagar 132kV D/c line (line works under ISTS through TBCB route)	132kV	1. LoA by Jun'22	June'2025
IV	Upgradation of Sonapur S/s from AIS to GIS	-	1. Contract to be awarded by Jun'23. LoA by Jun'23	June'2026
a)	LILO of 400kV Silchar-Byrnihat at Sonapur	-	1. LoA by Jun'23	June'2026

Sl. No.	Substation/Location	Transformation Capacity/Element	Date of Award	Completion Schedule
B	Tripura (to be implemented by TSECL)			
I	Surajmaninagar (TSECL)	400/132kV, 2x315MVA	Award by Sep'22	12 months from Date of Award
a)	LILO of both circuits of Surajmaninagar (ISTS) – Palatana 400kV D/c line at Surajmaninagar (TSECL) S/s	400kV D/c	All works except 400kV termination at Surajmaninagar (TSECL) by POWERGRID to be done. Balance works under separate contract.	84% Line works complete by PGCIL, total completion subjected to Sub-station readiness at Surajmaninagar
C	NEEPCO (to be implemented by NEEPCO)			
I	Extension works at Ranganadi HEP end	Oct 22	Oct 22	Oct 22
II	Extension works at Pare HEP end	March'24	March'24	March'24

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a)	Bypassing of LILO of Ranganadi - Naharlagun / Nirjuli at Pare HEP so as to form direct Ranganadi- Naharlagun / Nirjuli 132 kV S/c line			
b)	Re-conductoring of LILO portion at Pare end (of Ranganadi - Naharlagun / Nirjuli 132kV S/c line) with HTLS (HTLS equivalent to ACSR Zebra) along with modification of 132kV bay equipment at Pare HEP			

D.5. Status Review for the Items Referred from previous OCCMs:

S.No	Item for Discussion	Status as per 196 th OCCM	Latest Status
1.	Introduction of SPS in Leshka S/Sn of Meghalaya (Agenda No. C4 of 189 th OCCM)	OEM has visited the site and proposed certain modifications in the original scheme. The finalised scheme will be submitted to the higher management in the following week.	
2.	Voltage and MVAR issues at 400kV Kameng S/Sn (Agenda No. C7 of 189 th OCCM)	Within Dec'2022	By Dec'22
3.	Difficulty in test synchronization at Ningthoukhong S/Sn (installation of line CVT) (Agenda No. C11. of 189 th OCCM)	Issue to be resolved shortly. Test synchronization can be done after 22 nd Oct, 2022	
4.	Outage of 400kV Imphal (PG) – Thoubal-I (Agenda B.15 of 184 th OCCM)		Litigation pending in court
5.	Charging of 33kV Khupi-Kimi line at 132kV: Recommendations of the 187 th OCCM to be implemented: (a) Installation & Commissioning of PLCC and additional Wave Trap with accessories at Khupi (NEEPCO) - By Mar'22 Minutes of 188 th OCC meeting held on 16 th March, 2022 at Guwahati (b) Defective Relays at Khupi end to be repaired (NEEPCO) – By Mar'22 (c) PID testing and replacement of defective insulators (NEEPCO) – By	Status Report submitted to NERPC. As informed in 23 rd TCC/RPC meeting, NEPCO to complete its work by Dec'22. Also, PGCIL (Comprehensive) to complete OPGW work by Dec'22.	As informed in 23 rd TCC/RPC meeting, NEPCO to complete its work by Dec'22. Also PGCIL (Comprehensive) to complete OPGW

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	<p>Mar'22 (d) Infringement checking and vegetation clearance (NEEPCO) – By Mar'22 (e) Stringing of OPGW by POWERGRID Comprehensive – By Mar'22 (f) Procurement and installation of Line Differential Relays (NEEPCO) – By Mar'22 (Agenda B.15 of 188th OCCM)</p>		work by Dec'22.
6.	<p>Synchronization issue of 220kv AGBPP – Tinsukia 1 & 2 at AGBPP end.(NEEPCO to update the status of CVT procurement and other relevant details.) Item B.24 of 190th OCCM.</p>	Tender floated in the month of August'2022.	
7.	<p>Implementation of Single Phase Auto-Reclosure for 132kV Rangia-Motonga and 132kV Gelephu-Salakati Line (C.14 of 191st OCCM)</p>	Nov'22	SPAR of 132kV Rangia-Motonga line is planned for March'23. For Salakati-Gelephu, work done
8.	<p>Non reporting of 132kV Mohanpur S/S under NERPSIP and Comprehensive projects (C.16 OF 191ST OCC)</p>	NERPSIP raised the issue of old fibers. Work in scope of TSECL	NERPSIP pointed out that there is a break in OPGW of the Mohanpur-Dhalabil line, which is under scope of TSECL
9.	<p>Grid Disturbance in Dhaligaon area of Assam Power System (C.18 of 191st OCCM)</p>	Estimate prepared and submitted to Disaster Risk reduction Works, 2022-2023, Govt of Assam	Same status
10.	<p>Tower schedule of 220 KV D/C Transmission line (from Zhadima 400/220 KV GIS Substation to Zhadima 220 KV Substation) (B.18 OF 194TH OCC)</p>	Yet to submit. Line Parameters changed due to increasing in no oftowers. Revised parameters to be submitted soon.	Will be provided before OPGW installation in N Kohima - Zhadima Line
11.	<p>400 kV STG-1 Main Bay at OTPC Palatana (C.6 of 194th OCCM)</p>	Bay currently Open. To be rectified in Unit 1 S/D.	
12.	<p>400 kV Bongaigaon-Byrnihat L/R at 400 kV Bongaigaon (PG)</p>	Bushing replacement of the reactor required, to be done after	Bushing replaced

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	(C.6 of 194 th OCCM)	returning of 220kV BTPS-Salakti DC	and shutdown for testing of LR taken
13.	Occurrence of Multiple grid disturbance in Gohpur and radially connected areas of Assam Power System (C.10 of 194 th OCC)	Work completed from AEGCL end. SEM meters to be provided.	SEMmeters provided by PGCIL, both lines bays commissioned from AEGCL end
14.	Status of Installation of TLSA in 400kV Silchar-Azara T/L & 400 kV Silchar-Byrnihat T/L (C.12 of 194 th OCCM)	Tender floated by NETC for procurement of TLSAs	Tender opening on 30.12.2022
15.	PLCC & protection related issues at 132kV Tipaimukh S/s (C.15 of 194 th OCC)	48V charger replaced for both Aizawl and Jiribam bays	PLCC engineer to visit the SS in last week of December. Refer to agenda item C.8.
16.	48V System reliability at Pasighat end (C.16 of 194 th OCC)	Transmission division/ circle was requested to take up the matter, likely to be completed by March 2023 if fund is approved.	likely to be completed by March 2023 if fund is approved
17.	Construction of Anchor tower at location 433 by PGCIL and reconductoring of 220kV Mariani-Mariani SC with Moose conductors(B.16 of 196 th OCCM)	PGCIL- Construction of anchor tower by Jan'23. AEGCL- reconductoringthereafter	Same status

E. METERING AGENDA ITEMS

E.1. Procurement of SEM & DCD/Laptop for future requirements:

In the 194th and 195th OCCM, DGM(AM), NERTS informed that 40 DCDs are under procurement and delivery is expected by Oct'22. In 196th OCCM, DGM, PGCIL updated that LoA has been placed and supply of DCDs is expected by 9th Jan'23.

Deliberation of the sub-committee

CGM(AM), NERTS updated that LoA has been placed and supply of DCDs is expected by 9th Jan'23.

The Sub-Committee noted as above

Action: all utilities.

E.2. Issues regarding SEM Data Processing:

- a. Mismatch in 220 kV Deomali (AP) - AGBPP (Kathalguri) power flow data: Pair-check mismatch has been observed for 220 kV Deomali (AP) - AGBPP (Kathalguri). Deomali end is reading 2/3rd of Kathalguri end. In 194th OCCM, SLDC A.P assured the forum to send expert from Itanagar to check the SEM at the earliest.

Status may be reviewed.

- b. Non-receipt of SEM data from 220kV Mariani(As) & 132 kV Pailapool Substations: Weekly SEM data of 220kV Mariani(As) & 132 kV Pailapool(As) Substations is important for accounting of Assam drawal. However, SEM data from the said substations is not being received.

In 194th OCCM, SLDC AEGCL intimated the forum that regarding SEM at Mariani(As), USB to serial converter's driver is not available, for which PGCIL assured to ask Mariani(PG) to extend support. Regarding SEM at Pailapool it was informed that a new laptop is required which will be procured very soon.

Status may be reviewed.

- c. Erroneous reading of Tipaimukh end of 132kV Aizwal-Tipaimukh line: Tipaimukh end of 132kV Aizwal-Tipaimukh line is reading close to 0 (Zero). In 194th OCCM, SLDC, MSPCL informed that similar to problem with SEM at Rengpang SS, the problem with SEM at Tipaimukh still persists despite a thorough evaluation of the meter. The forum requested PGCIL to extend help to MSPCL. To which PGCIL concurred

Status may be reviewed.

In 196th OCCM, the followings were concluded:

- a. DoP, AP will rectify Deomali SEM by Oct'22 for 220 kV Deomali (AP) - AGBPP (Kathalguri) feeder.
- b. Mariani: SLDC, Assam mentioned that there has been persistent connectivity issue at the ss and asked PGCIL for support. Pailapool: Laptop has not been procured by Assam yet
- c. MSPCL reiterated that Tipaimukh SEM needs replacement. PGCIL stated that replacement meter will be sent shortly.

Deliberation of the sub-committee

- a. Issue resolved
- b. Mariani: SLDC, Assam mentioned that there has been persistent connectivity issue at the SS and asked PGCIL for support. Pailapool: new laptop is under procurement stage, meanwhile SEM data will be sent through the laptop at Karimganj SS
- c. PGCIL updated that replacement meter is received by MSPCL and will be installed by PGCIL

The Sub-Committee noted as above

Action: NERTS.

E.3. High Time Drifted SEMs:

Time drift in SEMs may result in computational errors in Regional energy accounts & Weekly Loss. All constituents in whose premises the meters are installed are required to take corrective action for the same.

Time drift of more than 4 mins observed in the following meters.

S.No	ENTITY	FEEDER NAME	METER NO
1	ASSAM	220 kV TINSUKIA END OF KTG FDR-I	NP-9654-A
2	ASSAM	220 kV TINSUKIA END OF KATHALGURI FDR-II	NP-9658-A
3	ASSAM	132 kV UMRANGSOO END OF KHLEIRIAT (PG)	NP-5290-A
4	ASSAM	132 kV UMRANGSOO END OF HAFLONG	NE-0019-A
5	ASSAM	132 kV RANGIA END OF MOTONGA	NP-9669-A
6	MANIPUR	400 kV THOUBAL END OF IMPHAL(PG)-II FDR	NP-9603-A
7	MIZORAM	132 kV KOLASIB END OF AIZAWL(PG) FDR	NE-0087-A
8	POWERGRID	400/132kV SILCHAR 200MVA ICT-1 (HV SIDE)	NE-0050-A
9	POWERGRID	400 kV SILCHAR END OF BYRNIHAT	NP-9398-A
10	POWERGRID	400 kV SILCHAR END OF PALATANA FDR-I	NE-0030-A
11	POWERGRID	400/132 kV SILCHAR ICT-3 (HV SIDE)	NP-6946-A

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12	POWERGRID	400/132 SILCHAR END OF MISA FDR-I	NP-9925-A
13	POWERGRID	400 kV SILCHAR END OF IMPHAL-II	NE-0040-A
14	POWERGRID	400 kV SILCHAR END OF PK BARI (STERLITE)-I	NP-9901-A
15	POWERGRID	400 kV SILCHAR END OF IMPHAL-I	NE-0007-A
16	POWERGRID	132 kV SILCHAR END OF SRIKONA-I	NP-9895-A
17	POWERGRID	400 kV BONGAIGAON END OF NTPC_BgTPP-2	NP-9477-A

Note: Out of 90 Locations, appx. 35-40 Nos. of locations send SEM Time Drift Report.

In 196th OCCM, following were the updates

PGCIL: stated that it will look into the matter and will resolve through Laptop or DCD.

Assam: T&C will take up the work

Manipur: Thoubalpersonnel have been informed and will take up the matter

Mizoram: PGCIL will help

Deliberation of the sub-committee

PGCIL: correction process underway

Assam: T&C will take up the work

Manipur: Thoubalpersonnel have been informed and will take up the matter

Mizoram: PGCIL will help

The Sub-Committee noted as above

Action: NNERTS, AEGCL, MSPCL, P&ED Mizoram.

E.4. DCD issue at 132 kV Kolasib Substation:

Enormous amount of old files remained dumped in DCD of 132 kV Kolasib station which is causing hindrance in receiving latest weekly SEM data. Even after communicating several times, the problem is still persisting.

In 196th OCCM, Mizoram updated that they have approached PGCIL for resolving the problem with DCD, but it is not yet resolved, will look again.

Deliberation of the sub-committee

PGCIL updated that memory cleaning go the DCD is required. For which they have not yet received any call from Mizoram. Member Secretary, NERPC requested PGCIL/P&ED Mizoram to resolve the issue bilaterally.

The Sub-Committee noted as above

Action: NERTS/P&ED Mizoram.

Annexure-I**List of Participants in the 197th OCC Meeting held on 16.12.2022**

SN	Name & Designation	Organization	Contact No.
1	Sh. M.Nalo, SE (Trans.)	Ar. Pradesh	08413833825
2	Sh. Sange Phuntso, EE (SLDC)	Ar. Pradesh	09436041217
3	Sh. Rajesh Sharma, JE (DoP)	Ar. Pradesh	09436058725
4	Sh. Rodali Khaund, DGM, SLDC	Assam	06901255808
5	Sh. Ashutosh Bhattacharjee, DGM, SLDC	Assam	09954106916
6	Sh. F.H.Hashmi, DGM (AEGCL)	Assam	09435130555
7	Sh. Tridip Borah, AGM	Assam	09864602779
8	Ms. Barsha Kashyap, Dy.Mgr (SLDC)	Assam	09706692773
9	Sh. Anand Kumar, Dy.Mgr (SLDC)	Assam	07002350891
10	Sh.Th.Sushanta Singh, Manager (SLDC)	Manipur	09862448363
11	Sh. B.Narry, EE (SP)	Meghalaya	07005298338
12	Sh. Alokesh Koch, AEE, SLDC	Meghalaya	08257060204
13	Sh. C.W.Chen, AEE (C&C)	Meghalaya	09863093311
14	Sh. J.H Laithangliana, SE (SLDC)	Mizoram	09436143705
15	Sh. Benjamin Tlumtea, SE (P&E)	Mizoram	09436151424
16	Sh. Rokobeito Italu, SDO	Nagaland	09436832020
17	Sh.S.I.Asangba Tikhir, EE (T)	Nagaland	07085508502
18	Sh. P.Tiakaba Yimchunger, JE, SLDC	Nagaland	08974020151
19	Sh. Debabrata Pal, Sr.Manager	Tripura	09436500244
20	Sh. Debjani Dey, ED (O&M)	NEEPCO	09401012389
21	Sh. Birash Sen, GM	NEEPCO	09436123074
22	Sh. M.Talukdar, DGM	NEEPCO	09435339690
23	Sh. S.C. DE, Sr.GM	NERLDC	09436335369
24	Sh. B.Sahu, Sr.GM	NERLDC	09425409539
25	Sh. Chitra Bahadur Thapa, Manager	NERLDC	08135989964
26	Sh. Sourav Mandal, Manager	NERLDC	09402102354
27	Sh. P.Kanungo, CGM (AM)	PGCIL	09436302823
28	Sh. Pankaj Kr. Das, Sr.GM, (NERPSIP)	PGCIL	09910378130
29	Sh. Raktim Konwar, Manager (NERPSIP)	PGCIL	09678682358
30	Sh. Abhilash, Asst. Mgr	PGCIL	09600160276
31	Sh. Mohammad Musa, Sr. Manager	OTPC	07085458310
32	Sh. Abhinandan Goswami, Asst. Mgr	OTPC	09810647016
33	Sh. Prayas Gupta, Head Operation	INDIGRID	09099005516

34	Sh. Lokendra S. Ranawat,Head-Regulatory	INDIGRID	09311279183
35	Sh. Vivek Karthikeyan, AGM(Coml.& Reg)	INDIGRID	08966903034
36	Sh. Ashwini Sharma, AGM	INDIGRID	09937730371
37	Sh. Ratan Singh Basnet, Sr. Mgr	NETC	08811072489
38	Sh. Anil R.Sah, DGM	NETC	09999055047
39	Sh. Ashim De, Dy.Manager	NHPC	09800284587
40	Smti. Sangita Sarkar, Ch.Manager	CTUIL	09560850202
41	Sh. H.S.Kaushal, Sr. Manager	CTUIL	09599291535
42	Sh. B. Lyngkhoi, Member Secretary	NERPC	09436163419
43	Sh. S.M.Aimol, Director	NERPC	08974002106
44	Sh. S.Mukherjee, Dy.Director	NERPC	08794277306
45	Sh. Shaishav Ranjan, AEE	NERPC	08787892650
46	Sh. Vikash Shankar, AD-I	NERPC	09455331756
47	Sh. Ashim Goswami, AD-II	NERPC	08638966481
48	Sh.Dinesh Kr.Singh, AD-I	NERPC	07042118261

उ.पू.क्षे ग्रीड प्रदर्शन

NER GRID PERFORMANCE

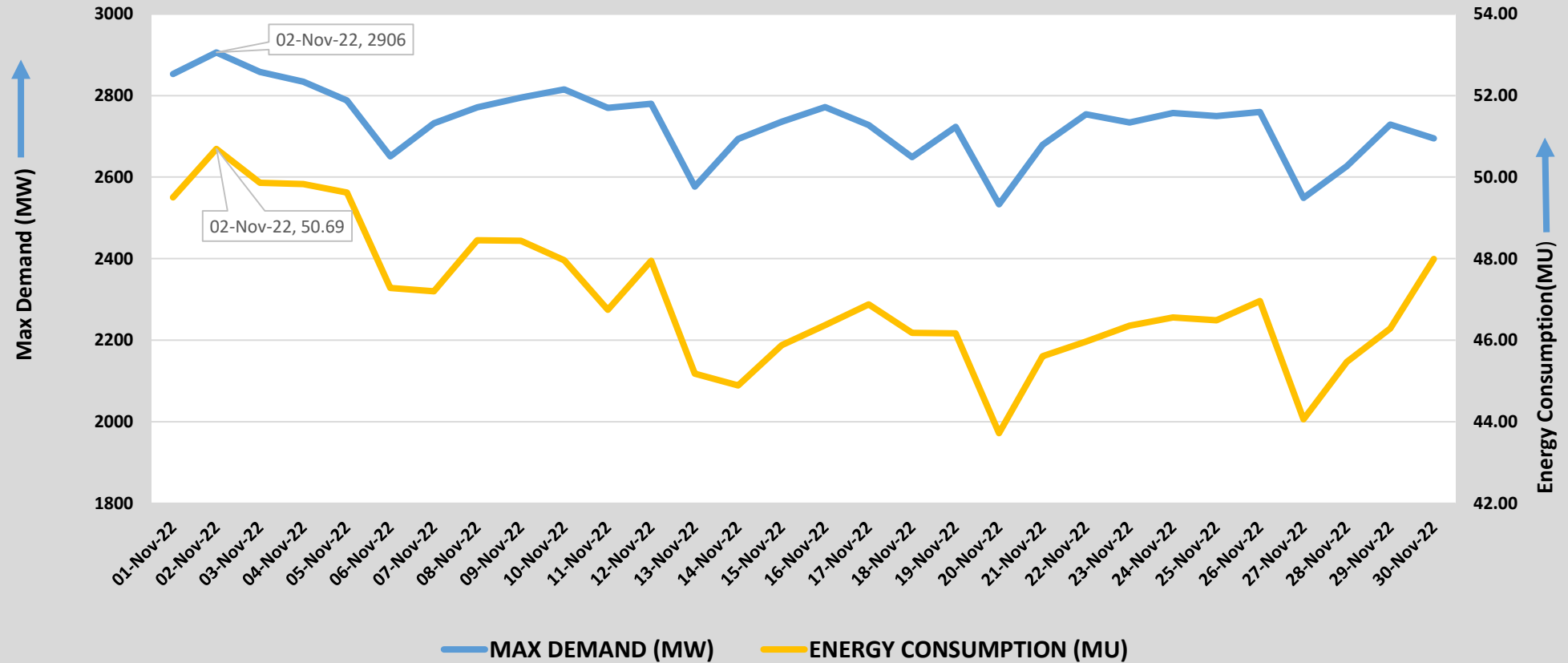
For the month November 2022

North-Eastern Regional Load Despatch Centre

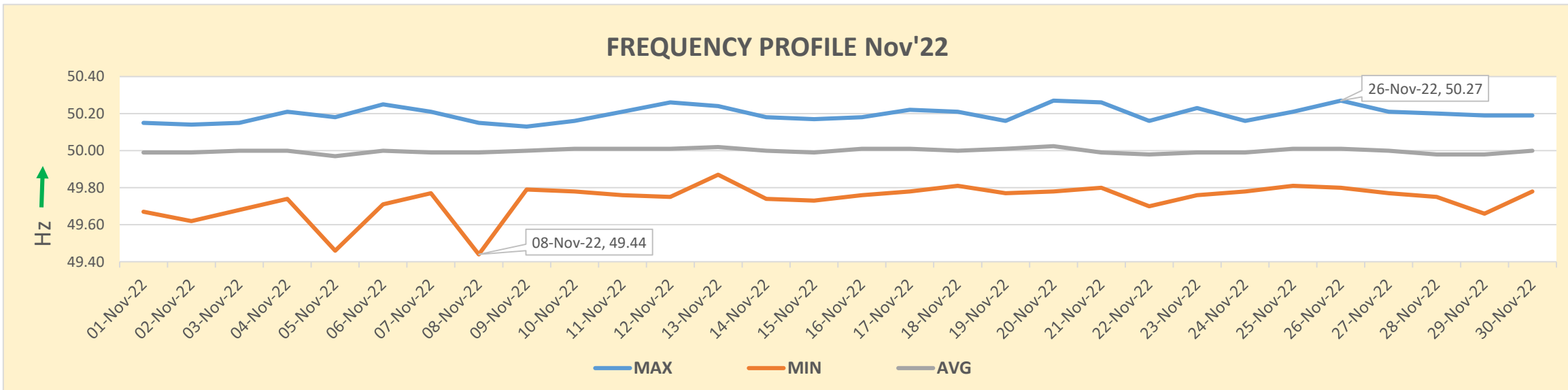
Grid-India, Shillong

Maximum MW and MU in NER: November 2022

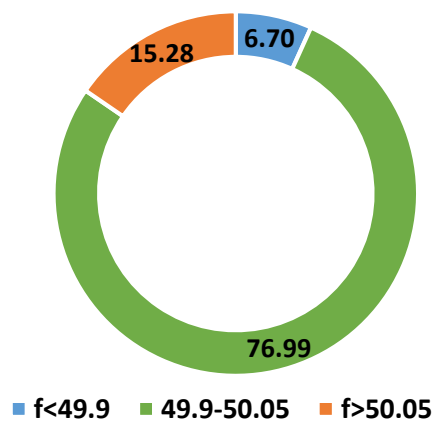
Maximum Demand (MW) and Energy Consumption (MU)



Frequency Profile

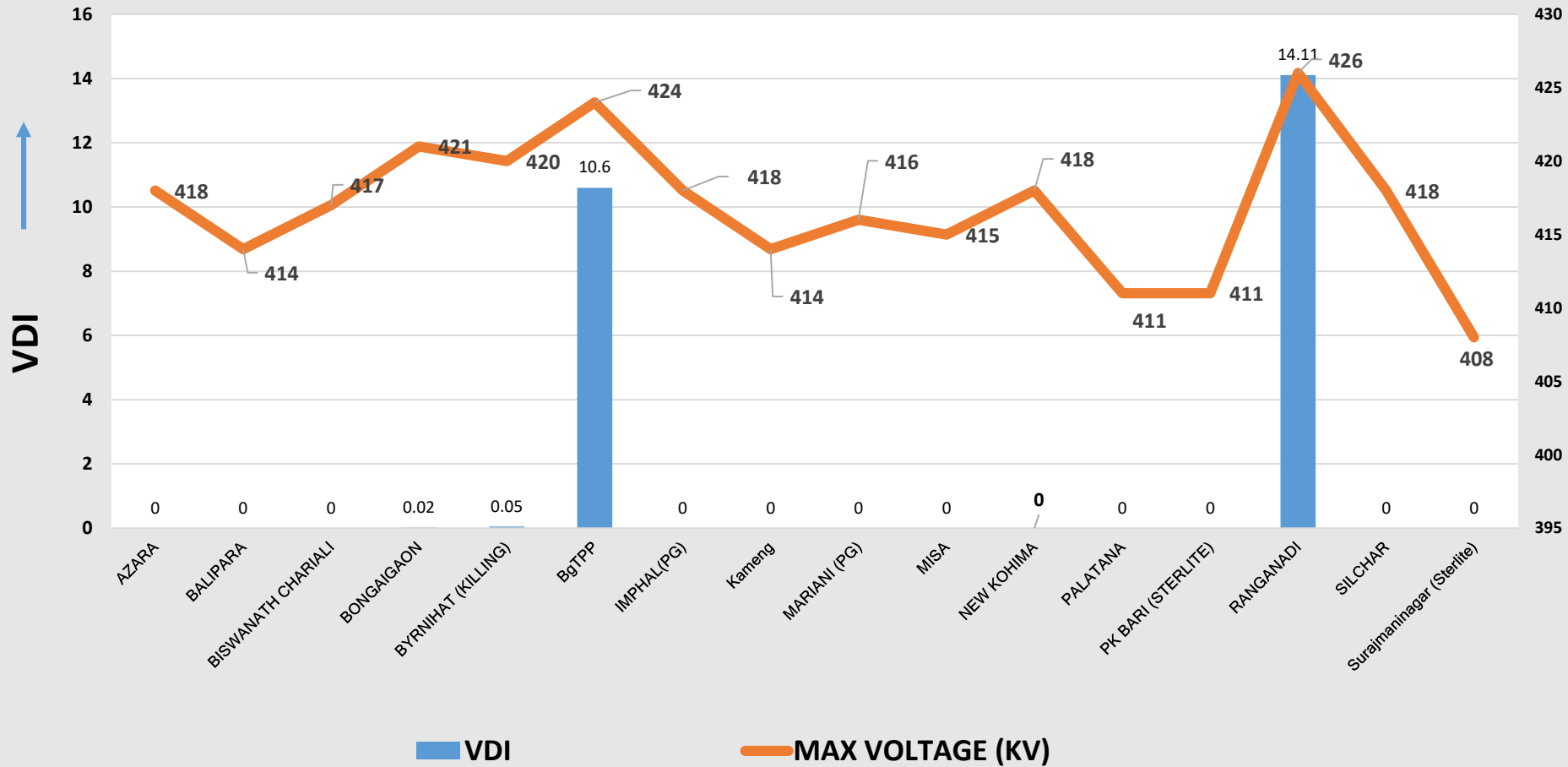


FREQ PROFILE FOR Nov'22



VDI (400 KV) FOR November 2022

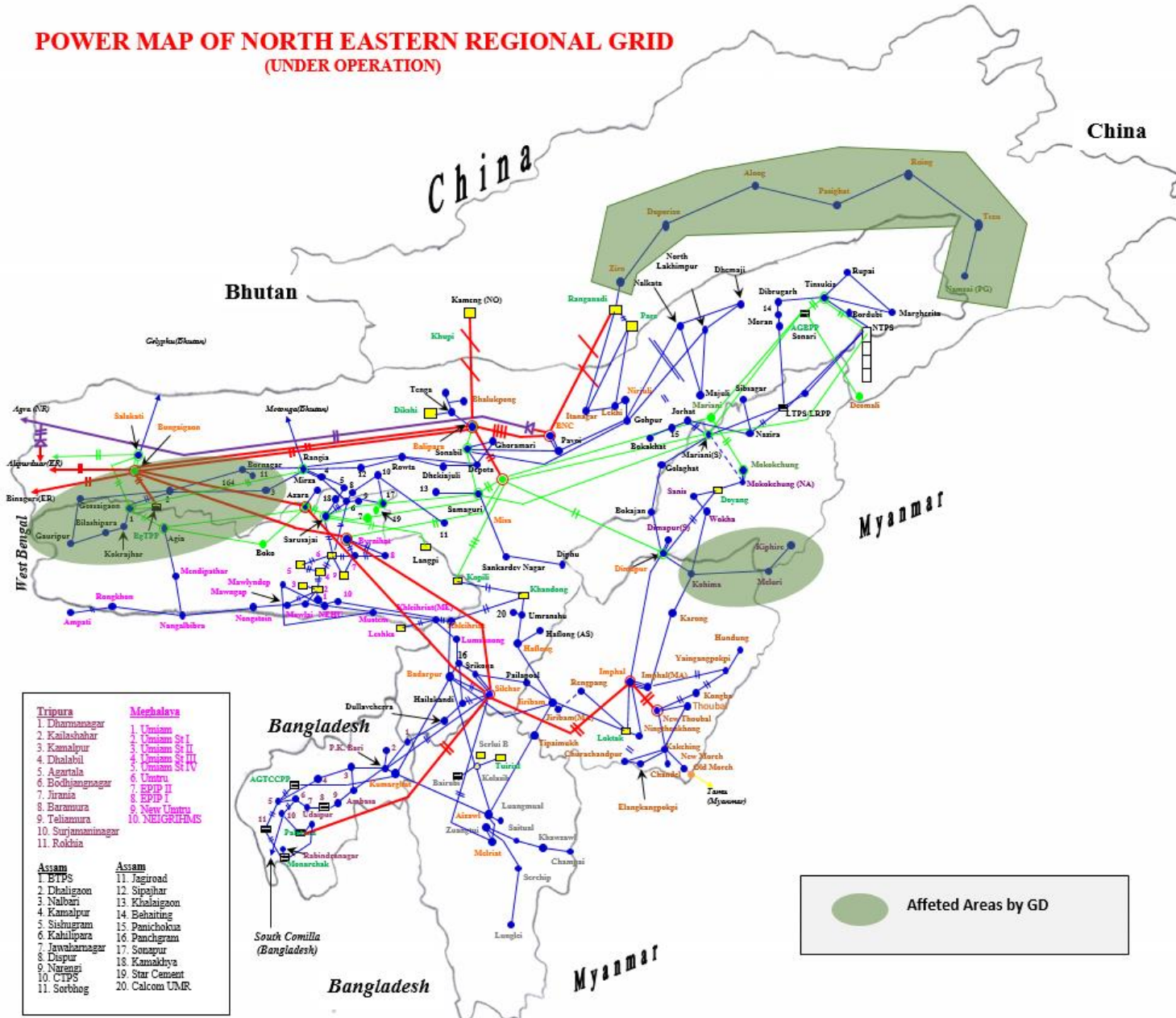
No. of 400 kV lines kept open for over voltage : 3



Grid Disturbance during November 2022

POWER MAP OF NORTH EASTERN REGIONAL GRID (UNDER OPERATION)

No. of GD	3
No. of GI	7



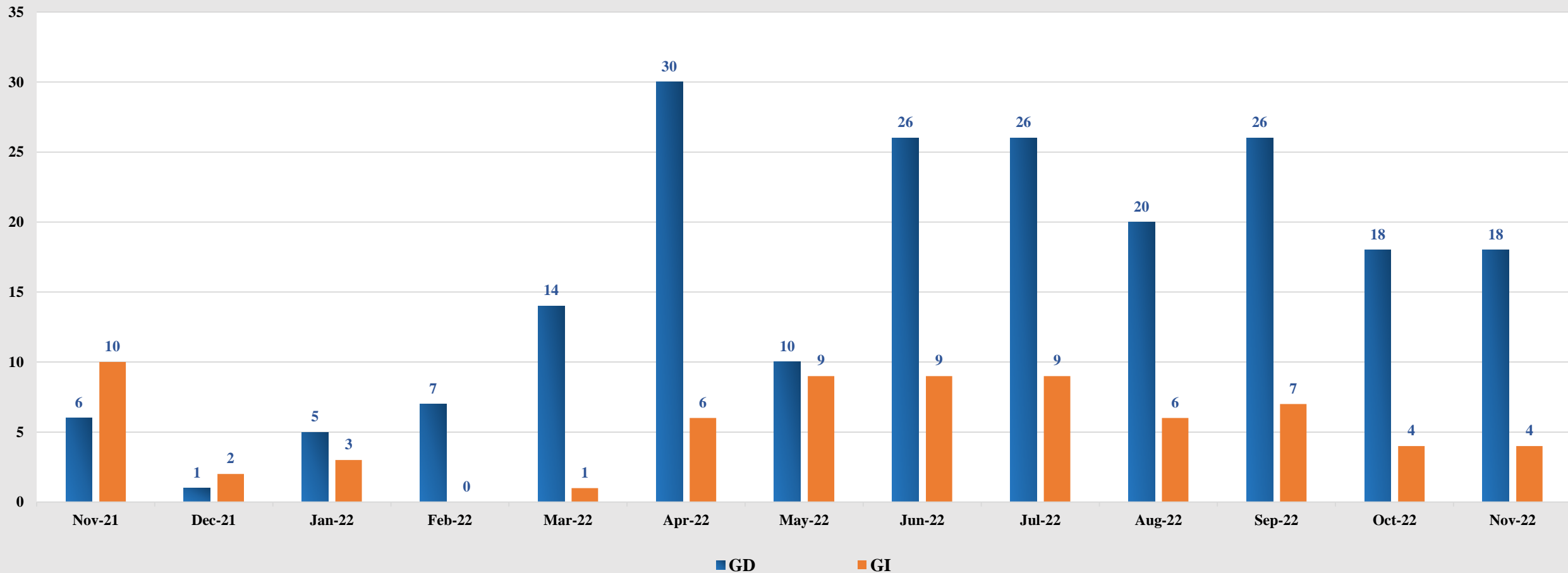
Sl. No.	Element	Number of times
1	132 kV Ranganadi - Ziro	caused GD 1 time
2	220kV BTPS(AS) buses 1 and 2	caused GD 1 time
3	132 kV Dimapur(PG)-Kohima (reconfigured), 132 kV Kohima-Meluri, 132 kV Kohima-Karong and 132 kV Kohima-Chiephobozou	caused GD 1 time

- | | |
|-------------------|------------------|
| Tripura | Meghalaya |
| 1. Dharmanagar | 1. Umiam |
| 2. Kailashahar | 2. Umiam Sr I |
| 3. Kamalpur | 3. Umiam Sr II |
| 4. Dhalabali | 4. Umiam Sr III |
| 5. Agartala | 4. Umiam Sr IV |
| 6. Bodinjanagar | 6. Umtru |
| 7. Jirania | 7. EPDP II |
| 8. Baramura | 8. EPDP I |
| 9. Teliamura | 9. New Umtru |
| 10. Surjammamagar | 10. NEIGRIHMS |
| 11. Rokhia | |
-
- | | |
|-----------------|-----------------|
| Assam | Assam |
| 1. BTPS | 11. Jagoirad |
| 2. Dhaligaon | 12. Sipahar |
| 3. Nalbari | 13. Khaligaon |
| 4. Kamalpur | 14. Behaiting |
| 5. Sialmgram | 15. Panichoktia |
| 6. Kahalipara | 16. Panichgram |
| 7. Jawaharnagar | 17. Sonagar |
| 8. Dispur | 18. Kamakhya |
| 9. Narengi | 19. Star Cement |
| 10. CTPS | 20. Calcuta UMR |
| 11. Sorbhog | |

 Affected Areas by GD

Grid Disturbance/Incidences for last 12 Months

GD and GI : November 21 to November 22



Projected Hydro Generation Availability

Plants	Reservoir Level in meters (as on 14/12/2022)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong + Kopili STG II	-	-	-	-
Kopili	-	-	-	-
Doyang	317.41	18	0.189	95
Loktak	766.63	16.3	0.6125	27

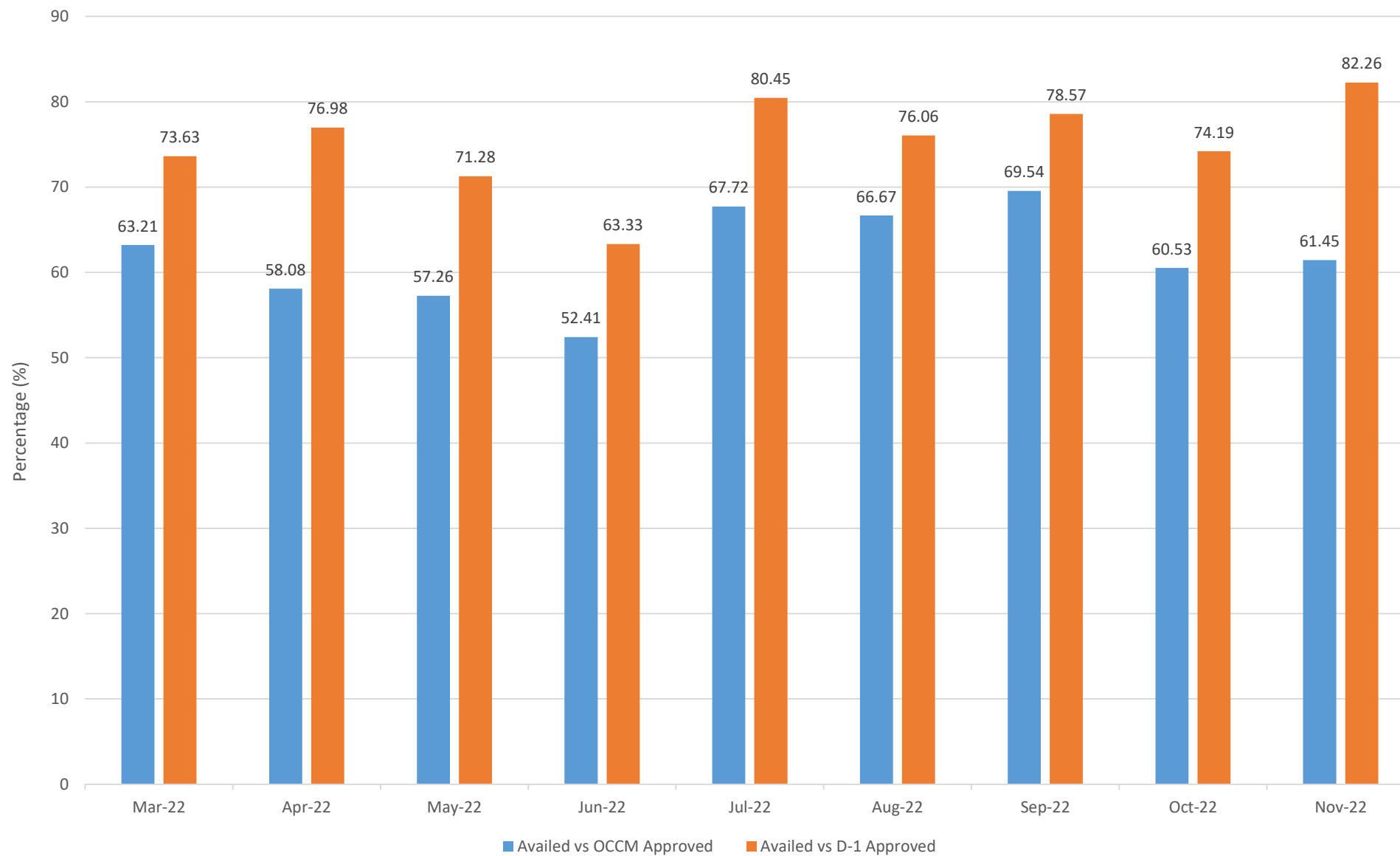
OCC approved shutdown availing status for the month of November 2022

SUMMARY OF NER OUTAGE

MONTH	PLANNED IN OCC	APPROVED IN D-1	AVAILED IN REAL TIME	AVAILED VS PLANNED	AVAILED VS APPROVED	DEFERRED BY RLDC DUE TO SYSTEM CONSTRAINT
November-22	166	124	102	61.45%	82.26%	11

	OCC Approved	D-1 Approved	Availed	Not Availed	RLDC Deferred
NER	166	124	102	15	11
NERTS	73	60	51	8	3
ASSAM	39	33	26	5	3
MANIPUR	0	0	0	0	0
MEGHALAYA	10	10	10	0	0
NAGALAND	24	8	2	2	5
MIZORAM	0	0	0	0	0
TRIPURA	7	6	6	0	0
Arunachal Pradesh	4	3	3	0	0
NETC	2	1	1	0	0
KMTL	0	0	0	0	0
NEEPCO	4	1	1	0	0
NTPC	1	1	1	0	0
OTPC	2	1	1	0	0
INDIGRID	0	0	0	0	0
NHPC	0	0	0	0	0

Approved Shutdown availing trend in percentage



RMSE of Load forecast for Nov'22

RMSE of the forecasted Demand by SLDCs Vs Actual Demand met as per SEM by SLDCs (as per IEGC c1.5.3):

$$RMSE = \sqrt{\frac{\sum_{i=1}^N (Predicted_i - Actual_i)^2}{N}}$$

Where,

Predicted_i = Forecasted Value

Actual_i = Actual value

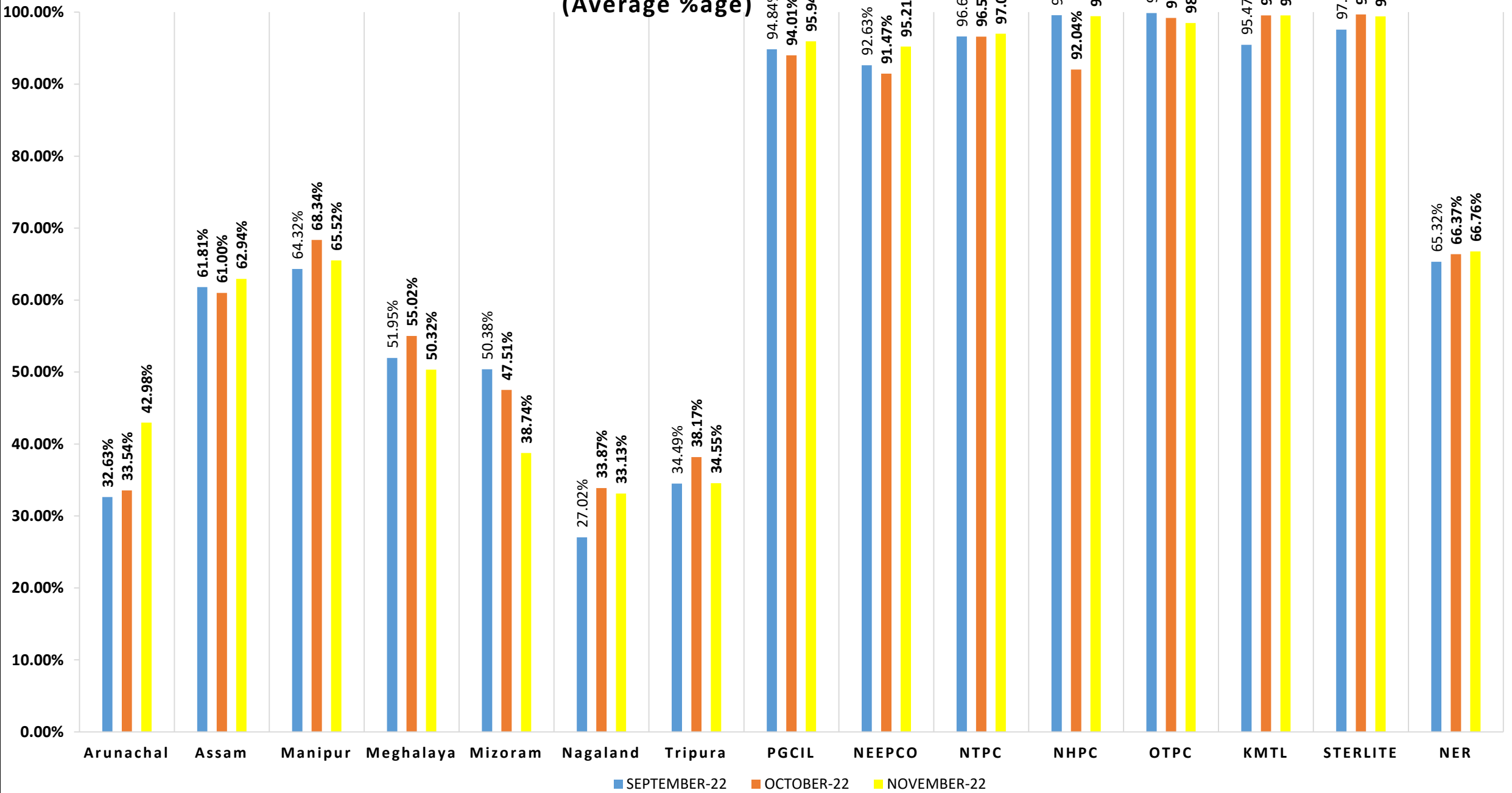
N = Total number of observations.

	Arunachal Pradesh	Assam	Manipur	Meghalaya	Mizoram	Nagaland	Tripura
Median	13	17	10	14	17	15	20

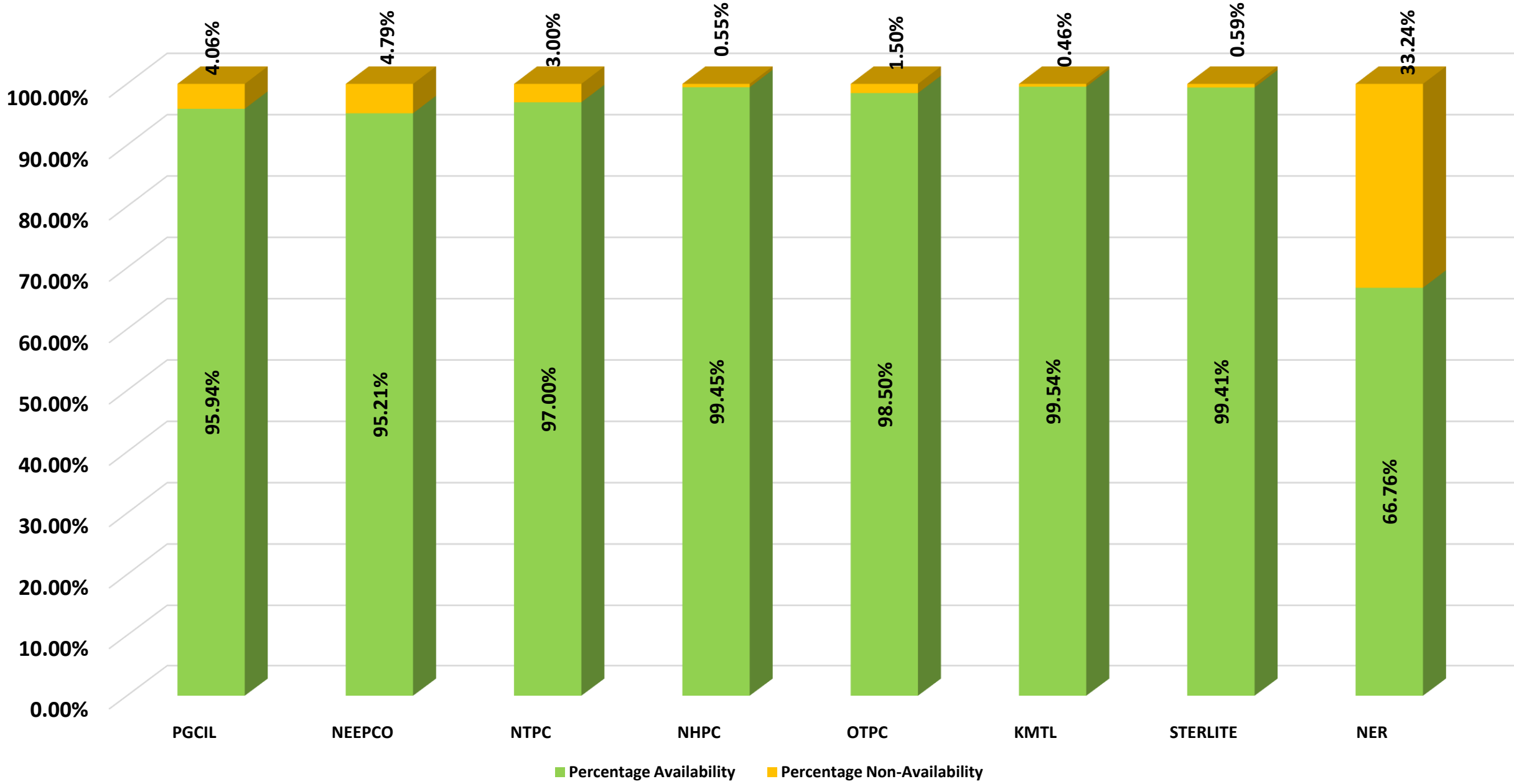


Telemetry and Data Availability

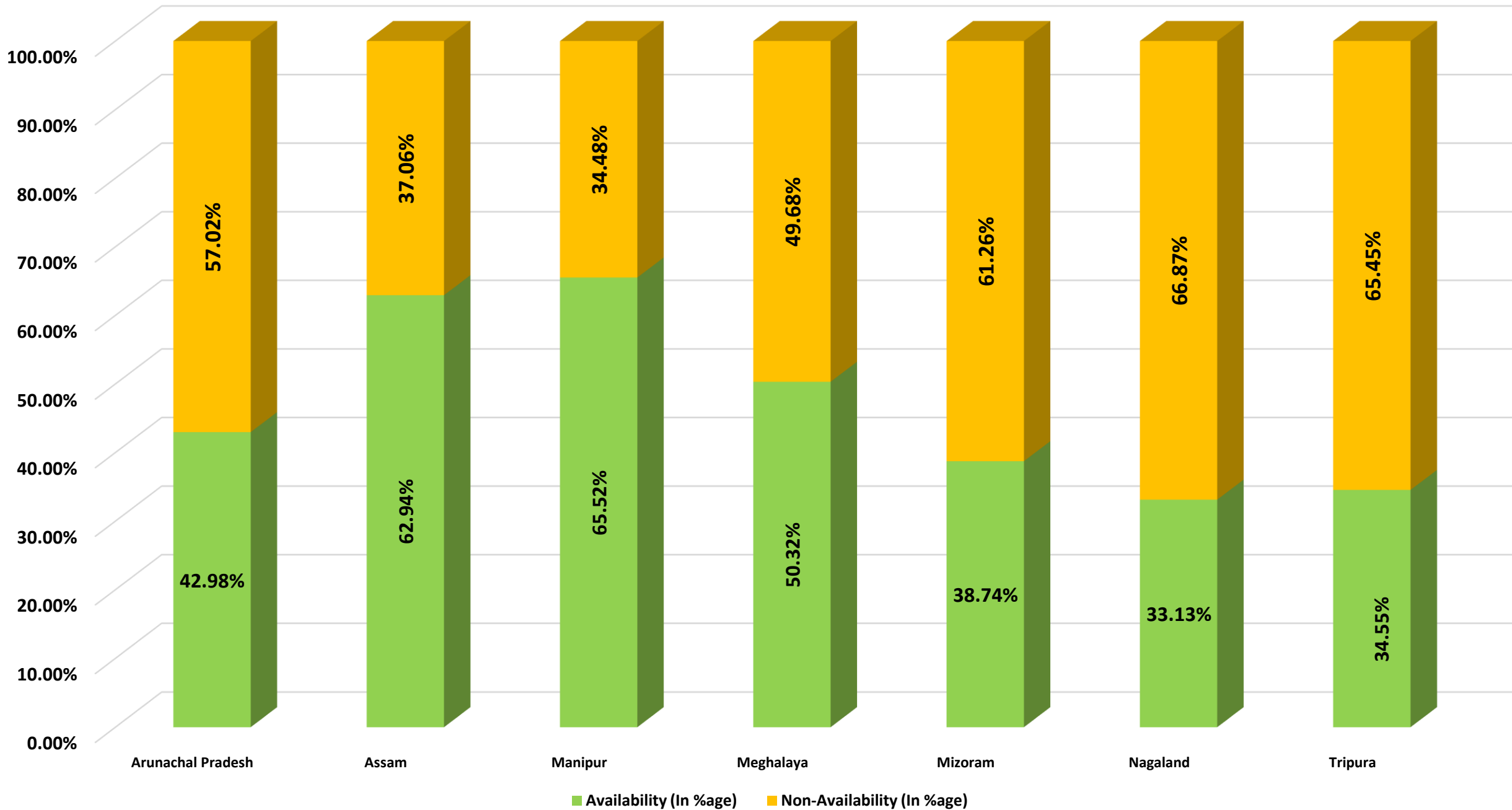
Comparison of Telemetry Availability Statistics (Average %age)



Telemetry Statistics for Central Sector of NER (Average availability of data for the Month of November'22)



Telemetry Statistics for NER States (Average availability of data for the Month of November'22)





Thank You

Annexure B.3

Shutdown Approved for the month of Jan 2023																																						
Sl. No.	Name of Element	Jan-23																														Time	Reason	Category	NERLDC REMARKS			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					31		
SHUTDOWNS PROPOSED BY PGCIL																																						
132kV Transmission lines																																						
1	132KV R C Nagar- Agartala line-I TL																																	0800Hrs to 1600Hrs	AMP of Bay Equipments	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132KV R C Nagar- Agartala line-II.	
2	132KV R C Nagar- Agartala line-II TL																																	0800Hrs to 1600Hrs	AMP of Bay Equipments	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132KV R C Nagar- Agartala line-I.	
3	132kV Badarpur-Silchar-1 TL																																	0930Hrs to 1300Hrs	Firmware upgradation of Micom P442 Numerical relay	Existing system improvement related shutdown.	At present, on low generation from Meghalaya power system and outage of 132 Khadong-Kopili link, 132 kV Haflog-Jiribam line and 132 kV Loktak-Jiribam line, the Meghalaya power system is not N-1 compliant. The SD may only be availed after restoration of Khanong-Kopili link.	
4	132kV Badarpur-Silchar-2 TL																																	1300Hrs to 1600Hrs	Firmware upgradation of Micom P442 Numerical relay	Existing system improvement related shutdown.	At present, on low generation from Meghalaya power system and outage of 132 Khadong-Kopili link, 132 kV Haflog-Jiribam line and 132 kV Loktak-Jiribam line, the Meghalaya power system is not N-1 compliant. The SD may only be availed after restoration of Khanong-Kopili link.	
5	132kV Badarpur-Kolasib TL																																	0800Hrs to 1600Hrs	Firmware upgradation of Micom P442 Numerical relay	Existing system improvement related shutdown.	The SD may be availed subject to outage of 132 kV Aizawl-Kolasib, 132 kV Silchar-Badarpur DC and 132 kV Badarpur-Jiribam line.	
6	132kV Badarpur-Karimganj TL																																	0800Hrs to 1600Hrs	Firmware upgradation of Micom P442 Numerical relay	Existing system improvement related shutdown.	The SD may be availed subject to outage of 132 kV Aizawl-Kolasib-Badarpur link, 132 kV Silchar-Badarpur DC and 132 kV Badarpur-Jiribam line.	
7	132kV Badarpur-Jiribam TL																																	0800Hrs to 1200Hrs	Firmware upgradation of Micom P442 Numerical relay	Existing system improvement related shutdown.	The SD may be availed subject to outage of 132 kV Aizawl-Kolasib-Badarpur link, 132 kV Silchar-Badarpur DC and 132 kV Badarpur-Karimganj-Kumarghat link.	
Jan-23																																						
8	132kV Badarpur-Badarpur (AEGCL) TL																																	0800Hrs to 1200Hrs	Firmware upgradation of Micom P442 Numerical relay	Existing system improvement related shutdown.	At present, on low generation from Meghalaya power system and outage of 132 Khadong-Kopili link, 132 kV Haflog-Jiribam line and 132 kV Loktak-Jiribam line, the Meghalaya power system is not N-1 compliant. The SD may only be availed after restoration of Khanong-Kopili link.	
9	132kV Badarpur-Khliehriat TL																																	0800Hrs to 1200Hrs	Firmware upgradation of Micom P442 Numerical relay	Existing system improvement related shutdown.	At present, on low generation from Meghalaya power system and outage of 132 Khadong-Kopili link, 132 kV Haflog-Jiribam line and 132 kV Loktak-Jiribam line, the Meghalaya power system is not N-1 compliant. The SD may only be availed after restoration of Khanong-Kopili link.	
10	132kV Aizawl-Kolasib TL																																	0800Hrs to 1200Hrs	Firmware upgradation of Micom P442 Numerical relay	Existing system improvement related shutdown.	The SD may be availed subject to outage of 132 kV Kolasib-Badarpur, 132 kV Badarpur-Jiribam line, 132 kV Silchar-Badarpur DC and 132 kV Badarpur-Karimganj-Kumarghat link.	
11	132kV Dimapur - Imphal TL																																	0800Hrs to 1600Hrs	To remove arching horn form the line	Existing system improvement related shutdown.	The SD may be availed	
12	132kV Dimapur - Doyang- 1 TL																																	0800Hrs to 1600Hrs	To remove arching horn form the line	Existing system improvement related shutdown.	SD may be availed subject to availability of 220 kV Mariani-Mokokchung DC.RELIABILITY OF THE SYSTEM IS REDUCED.	
13	132kV Dimapur - Doyang- 2 TL																																	0800Hrs to 1600Hrs	To remove arching horn form the line	Existing system improvement related shutdown.	SD may be availed subject to availability of 220 kV Mariani-Mokokchung DC.RELIABILITY OF THE SYSTEM IS REDUCED.	
14	132kV Jiribam Tipaimukh TL																																	0800Hrs to 1600Hrs	To remove arching horn form the line	Existing system improvement related shutdown.	The SD may be availed subject to availability of 132 kV Loktak-Rengapong-Jiribam link.	
15	132kV Khliehriat - Khandong-1 TL																																	0800Hrs to 1500Hrs	rectification of Suspension string of loc No. : 63&64 which was damaged due to lightning	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132 kV Haflog-Jiribam line.RELIABILITY OF THE SYSTEM IS REDUCED.	
16	132kV Mokokchung - Mokokchung - 1 TL																																	0800Hrs to 1600Hrs	AMP of Bay equipments	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132kV Mokokchung - Mokokchung - 2 & 132 kV Doyang-Mokokchung line.	
17	132kV Mokokchung - Mokokchung - 2 TL																																	0800Hrs to 1600Hrs	AMP of Bay equipments	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132kV Mokokchung - Mokokchung - 1 & 132 kV Doyang-Mokokchung line.	
Jan-23																																						
18	132kV Silchar - Haikandi - 1 TL																																	0800Hrs to 1600Hrs	To remove arching horn form the line	Existing system improvement related shutdown.	The SD may be availed subject to availability of 132kV Silchar - Haikandi - 2.	
19	132kV Silchar - Haikandi - 2 TL																																		0800Hrs to 1600Hrs	To remove arching horn form the line	Existing system improvement related shutdown.	The SD may be availed subject to availability of 132kV Silchar - Haikandi - 1.
20	132kV Silchar - Srikona - 1 TL																																		0800Hrs to 1600Hrs	AMP of Bay equipments	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132kV Silchar - Srikona - 2 TL.
21	132kV Silchar - Srikona - 2 TL																																		0800Hrs to 1600Hrs	AMP of Bay equipments	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132kV Silchar - Srikona - 1 TL.
22	132kV Pasighat - Roing TL																																		0800Hrs to 1600Hrs	for installation of Line Differential relay	Existing system improvement related shutdown.	The SD may be availed. Roing, Tezu and Namsai area will become dark during the SD period.
23	132kV Roing - Tezu TL																																		0800Hrs to 1600Hrs	for installation of Line Differential relay	Existing system improvement related shutdown.	The SD may be availed. Tezu and Namsai area will become dark during the SD period.
24	132kV Tezu - Namsai TL																																		0800Hrs to 1600Hrs	for installation of Line Differential relay	Existing system improvement related shutdown.	The SD may be availed. Namsai area will become dark during the SD period.
Jan-23																																						
25	132kV Loktak - Jiribam TL																																	CSD 0700Hrs to 1500Hrs (till Feb 2023)	For conductor restringing to HTLS under NERSS project.	Construction Related Shutdown	The element is already under shutdown. SD may be availed.	
26	A/R of 132kV Balipara - Khupi TL																																	0800Hrs to 1600Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	Consent from AP is required. Auto Reclosure may be kept in Non-Auto Mode .	
27	132kV Aizwall - Kumarghat TL																																	0800Hrs to 1600Hrs	Attending/Rectifying Line defects during Cross-patrolling	Normal Maintenance related shutdown.	The SD may be availed.	
28	132 KV Aizawl- Tipaimukh TL																																	0800Hrs to 1600Hrs	To remove arching horn form the line	Existing system improvement related shutdown.	The SD may be availed.	
29	132kV Melriat - Shimmui - 1 TL																																	0800Hrs to 1600Hrs	AMP of Bay Equipments	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132kV Melriat - Shimmui - 2 .RELIABILITY OF THE SYSTEM IS REDUCED.	
30	132kV Melriat - Shimmui - 2 TL																																	0800Hrs to 1600Hrs	AMP of Bay Equipments	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132kV Melriat - Shimmui - 1 .RELIABILITY OF THE SYSTEM IS REDUCED.	

		Jan-23																																		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Time	Reason	Category	
220kV Transmission lines																																				
31	220kV Mariani (PG) - Mariani (AEGCL)	Consent from Assam received																															0800Hrs to 1600Hrs	AMP of Bay equipments	Normal Maintenance related shutdown.	SD may be availed. Flowgate of Upper Assam to be maintained below 245 MW during the SD period.
32	220kV Misa - Dimapur - 1 TL																																0800Hrs to 1600Hrs	To remove arching horn form the line	Existing system improvement related shutdown.	The SD may be availed subject to availability of 220kV Misa - Dimapur - 2 and 132 kV Dimpur-Imphal line.
33	220kV Misa - Dimapur - 2 TL																																0800Hrs to 1600Hrs	To remove arching horn form the line	Existing system improvement related shutdown.	The SD may be availed subject to availability of 220kV Misa - Dimapur - 1 and 132 kV Dimpur-Imphal line.
34	220kV Misa - Samaguri - 1 TL																																0800Hrs to 1600Hrs	AMP of Bay Equipments at AEGCL end	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 220kV Misa - Samaguri- 2 and 220 kV Balpara-Sonabil-Samaguri link. Generation from Langpi is to maximised during the SD period.
35	220kV Misa - Samaguri - 2 TL																																0800Hrs to 1600Hrs	AMP of Bay equipments	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 220kV Misa - Samaguri- 1 and 220 kV Balpara-Sonabil-Samaguri link. Generation from Langpi is to maximised during the SD period.
36	A/R 220kV Misa - Kopli-1 TL																																0800Hrs to 1600Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	Auto Reclosure may be kept in Non-Auto Mode .
37	A/R 220kV Misa - Kopli-2 TL																																0800Hrs to 1600Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	Auto Reclosure may be kept in Non-Auto Mode .
38	A/R 220kV Misa - Kopli-3 TL																																0800Hrs to 1600Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	Auto Reclosure may be kept in Non-Auto Mode .
400kV Transmission lines																																				
Name of Element		Jan-23																															Time	Reason	Category	
39	220kV Salakati - Bongaigaon - 2 TL																																CSD 0800Hrs to 1600Hrs	For upgradation works under Add cap	Construction Related Shutdown	The SD may be availed subject to availability of 220kV Salakati - Bongaigaon -1 line
40	220kV BTPS - Salakati - 1 TL																																CSD 0800Hrs to 1600Hrs	For conductor restringing to HTLS under NERSS project.	Construction Related Shutdown	SD discussion required.
41	A/R of 220kV BTPS - Salakati - 2 TL																																0800Hrs to 1600Hrs	For conductor restringing to HTLS under NERSS project.	Construction Related Shutdown	SD discussion required.
42	220kV BTPS - Salakati - 2 TL																																CSD 0800Hrs to 1600Hrs	For conductor restringing to HTLS under NERSS project.	Construction Related Shutdown	SD discussion required.
43	A/R of 220kV BTPS - Salakati - 1 TL																																0800Hrs to 1600Hrs	For conductor restringing to HTLS under NERSS project.	Construction Related Shutdown	SD discussion required.
400kV Transmission lines																																				
Name of Element		Jan-23																															Time	Reason	Category	
44	400kV Balipara -BNC-1 TL																																0800Hrs to 1600Hrs	To provide safety electrical working clearance for changing of OIP bushing with RIP bushing in Line reactor.	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 400kV Balipara- BNC- II,III & IV lines.
45	400kV BNC- Ranganadi - 1 TL	Intimation to NEEPCO																															0800Hrs to 1200Hrs	Firmware upgradation of Micom P442 Numerical relay	Existing system improvement related shutdown.	The SD may be availed subject to availability of 400kV BNC- Ranganadi II and 132 kV BNC-Itanagar DC lines.
46	400kV BNC - Balipara - 4 TL																																0800Hrs to 1200Hrs	Firmware upgradation of Micom P442 Numerical relay	Existing system improvement related shutdown.	The SD may be availed subject to availability of 400kV Balipara- BNC-I, II & III lines.
47	400kV BNC - Balipara - 3 TL																																0800Hrs to 1200Hrs	Firmware upgradation of Micom P442 Numerical relay	Existing system improvement related shutdown.	The SD may be availed subject to availability of 400kV Balipara- BNC-I, II & IV lines.
48	400kV BNC- Ranganadi - 2 TL	Intimation to NEEPCO																															0800Hrs to 1200Hrs	Firmware upgradation of Micom P442 Numerical relay	Existing system improvement related shutdown.	The SD may be availed subject to availability of 400kV BNC- Ranganadi I and 132 kV BNC-Itanagar DC lines.
49	A/R of 400kV New Mariani - Misa - 1 TL																																0800Hrs to 1600Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	Auto Reclosure may be kept in Non-Auto Mode .
50	A/R of 400kV New Mariani - Misa - 2 TL																																0800Hrs to 1600Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	Auto Reclosure may be kept in Non-Auto Mode .
51	A/R 400kV Misa - Balipara - 1 TL																																0800Hrs to 1600Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	Auto Reclosure may be kept in Non-Auto Mode .
52	A/R 400kV Misa - Balipara - 2 TL																																0800Hrs to 1600Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	Auto Reclosure may be kept in Non-Auto Mode .
53	A/R 400kV Misa - New Mariani - 1 TL																																0800Hrs to 1600Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	Auto Reclosure may be kept in Non-Auto Mode .
54	A/R 400kV Misa - New Mariani - 2 TL																																0800Hrs to 1600Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	Auto Reclosure may be kept in Non-Auto Mode .
55	A/R 400kV Misa - Dimapur - 1 TL																																0800Hrs to 1600Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	Auto Reclosure may be kept in Non-Auto Mode .
56	A/R 400kV Misa - Dimapur - 2 TL																																0800Hrs to 1600Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	Auto Reclosure may be kept in Non-Auto Mode .
400kV Transmission lines																																				
Name of Element		Jan-23																															Time	Reason	Category	
57	400kV Silchar - Palatana - 1 TL																																0800Hrs to 1200Hrs	Firmware upgradation of Micom P442 Numerical relay	Existing system improvement related shutdown.	The SD may be availed subject to availability of 400kV Silchar - Palatana - II and 400 kV Palatana-SM Nagar line.
58	400kV D/C Silchar - Imphal - 1 & 2 TL	Consent from Manipur required																															CSD 0800Hrs to 1600Hrs (Upto 14.02.2022)	for dead end tower erection at Imphal end	Construction Related Shutdown	SD discussion required.
59	400kV Bongaigaon - Balipara - 1 TL along with LR																																0800Hrs to 1600Hrs	Modification in OTI/WTI wiring scheme of LR to prevent maloperation of the equipments	Existing system improvement related shutdown.	The SD may be availed subject to availability of 400kV Bongaigaon - Balipara-II, III & IV lines.
60	400kV Bongaigaon - Balipara - 2 TL along with LR																																0800Hrs to 1600Hrs	Modification in OTI/WTI wiring scheme of LR to prevent maloperation of the equipments	Existing system improvement related shutdown.	The SD may be availed subject to availability of 400kV Bongaigaon - Balipara-I, III & IV lines.
61	400kV Bongaigaon - Azara TL along with LR																																0800Hrs to 1600Hrs	Modification in OTI/WTI wiring scheme of LR to prevent maloperation of the equipments	Existing system improvement related shutdown.	SD may be availed. NER-ER TTC/ATC will be revised.
62	400kV Misa - New Mariani # 1 TL																																0800Hrs to 1600Hrs	For replcement of damaged insulator at various locations	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 400kV Misa - New Mariani -2. A/R of other circuit should be kept in ON condition.

13	132 kV AGTWP (NEEPCO) PK Bari (TSECL) line Ckt 2																																8:00-16:00	AMP activity for the purpose of shutdown defect rectification.	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132 kV AGTCCP-PK Bari line 1.
Name of Element		Jan-23																															Time	Remarks	Category	
NEEPCO																																				
1	RHPS Unit# 2	[Red bar from Day 2 to Day 24]																															0000 to 2359	APM works	Normal Maintenance related shutdown.	SD may be availed.
2	Doyang unit#2	[Red bar from Day 2 to Day 29]																															000hrs of 9.01.2023 to 2359 hrs of 02.02.2023	APM works	Normal Maintenance related shutdown.	SD may be availed.
3	Kameng UNIT # 3	[Red bar from Day 3 to Day 24]																															000hrs of 5.01.2023 to 2359 hrs of 05.02.2023	APM works and GT replacement	Normal Maintenance related shutdown.	SD may be availed.
4	220kV Bus 2 and Bus coupler at AGBPP	[Red bar from Day 2 to Day 29]																															0000hrs of 26.12.2023 to 2359hrs fo 22.03.2023	Retrofitting, testing and commissioning works of 220kV CTs	Existing system improvement related shutdown.	SD may be availed.
5	GTG # 2, 3, 4 5, and 6 (7days for each unit) at AGBPP	[Red bar from Day 2 to Day 8]																															0000hrs of 2.01.2023 to 2359hrs of 8.01.2023	Retrofitting, testing and commissioning works of 220kV CTs	Existing system improvement related shutdown.	SD may be availed.
6	GTG # 3 at AGBPP	[Red bar from Day 8 to Day 14]																															0000hrs of 9.01.2023 to 2359hrs of 15.01.2023	Retrofitting, testing and commissioning works of 220kV CTs	Existing system improvement related shutdown.	SD may be availed.
7	GTG # 4 at AGBPP	[Red bar from Day 14 to Day 20]																															0000hrs of 16.01.2023 to 2359hrs of 22.01.2023	Retrofitting, testing and commissioning works of 220kV CTs	Existing system improvement related shutdown.	SD may be availed.
8	GTG # 5, at AGBPP	[Red bar from Day 20 to Day 26]																															0000hrs of 23.01.2023 to 2359hrs of 29.01.2023	Retrofitting, testing and commissioning works of 220kV CTs	Existing system improvement related shutdown.	SD may be availed.
9	GTG # 6 at AGBPP	[Red bar from Day 26 to Day 30]																															0000hrs of 30.01.2023 to 2359hrs of 5.02.2023	Retrofitting, testing and commissioning works of 220kV CTs	Existing system improvement related shutdown.	SD may be availed.
Name of Element		Jan-23																															Time	Remarks	Category	
Tripura																																				
1	132 KV Monarchak - Udaipur	[Red bar on Day 3]																															0800 hrs to 1500hrs	Routine maintenance work	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132 kV Monarchak-Rokhia line. SPS at Monarchak to be in off condition. Flowgate of 132 kV Monarchak-Rokhia to be maintained below 70 MW during the SD period.
2	132 KV Ambassa - P.K Bari (ISTS)	[Red bar on Day 7]																															0800 hrs to 1500hrs	Routine maintenance work	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132 kV Monarchak-Rokhia line. SPS at Monarchak to be in off condition. Flowgate of 132 kV Monarchak-Rokhia to be maintained below 70 MW during the SD period.
3	132 KV Monarchak - Udaipur	[Red bar on Day 11]																															0800 hrs to 1500hrs	Routine maintenance work	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132 kV Monarchak-Rokhia line. SPS at Monarchak to be in off condition. Flowgate of 132 kV Monarchak-Rokhia to be maintained below 70 MW during the SD period.
4	132 KV Monarchak - Rokhia	[Red bar on Day 15]																															0800 hrs to 1500hrs	Routine maintenance work	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132 kV Monarchak-Rokhia line. SPS at Monarchak to be in off condition. Flowgate of 132 kV Monarchak-Rokhia to be maintained below 70 MW during the SD period.
5	132 KV Ambassa - P.K Bari (ISTS)	[Red bar on Day 19]																															0800 hrs to 1500hrs	Routine maintenance work	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132 kV Monarchak-Rokhia line. SPS at Monarchak to be in off condition. Flowgate of 132 kV Monarchak-Rokhia to be maintained below 70 MW during the SD period.
6	132 KV Monarchak - Rokhia	[Red bar on Day 23]																															0800 hrs to 1500hrs	Routine maintenance work	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132 kV Monarchak-Rokhia line. SPS at Monarchak to be in off condition. Flowgate of 132 kV Monarchak-Rokhia to be maintained below 70 MW during the SD period.
7	132 KV Palatana - Udaipur	[Red bar on Day 27]																															0800 hrs to 1500hrs	Routine maintenance work	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132 kV Monarchak-Rokhia line & 132 kV Monarchak-Udaipur line. SPS at Monarchak to be in off condition. Combined Flowgate of 132 kV Monarchak-Rokhia line & 132 kV Monarchak-Udaipur line to be maintained below 70 MW during the SD period.
8	132 KV P.K. Bari - Missiontilla (Dharmanagar)	[Red bar on Day 31]																															0800 hrs to 1500hrs	Routine maintenance work	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132 kV Haikandi-Dhullavcherra-Dharmanagar link. RELIABILITY OF THE SYSTEM IS REDUCED.
Name of Element		Jan-23																															Time	Remarks	Category	
NHPC																																				
1	Loktak Unit# 1	[Red bar from Day 20 to Day 31]																															0000 hrs of 20.01.23 to 2359 03.02.2023	APM works	Normal Maintenance related shutdown.	SD may be availed.
Name of Element		Jan-23																															Time	Remarks	Category	
OTPC																																				
1	400KV Palatana Silchar Line-1	[Red bar on Day 11]																															0800 hrs to 1600hrs	Relay Testing	Existing system improvement related shutdown.	SD may be availed.
2	400KV Palatana Silchar Line-2	[Red bar on Day 13]																															0800 hrs to 1600hrs	Relay Testing	Existing system improvement related shutdown.	SD may be availed.
Name of Element		Jan-23																															Time	Remarks	Category	
Meghalaya																																				
1	132kV Lumshoing Bus	[Red bar on Day 6]																															0800 hrs to 1600hrs	Rectification and Maintenance Works	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132 kV Umiam stg1 to Umiam stg III DC. Generation support from Umiam stg II and IV is required during the shutdown period.
2	132kV Agia-Mendipathar Line	[Red bar on Day 19]																															0900 hrs to 1300hrs	Jungle clearance Tower LOC 244 - 249	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132 kV Umiam stg1 to Umiam stg III DC and 132 kV Agia-Nangabibira line.
3	132kV Khlichiat Bus S/D	[Red bar on Day 20]																															0930 hrs to 1600hrs	Checking and Tightening of terminal equipments. Attending leakages from transformer bushings	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132 kV Umiam stg1 to Umiam stg III DC. Maximum generation support from Umiam stg II and IV is required during the shutdown period.
APPROVED		[Red bar on Day 2]																																		
REJECTED		[Red bar on Day 3]																																		

Unallocated Pool: Total 319.1645000 MW

Loktak IC = 105 MW	Unallocated= 15.0045 MW				Proposed Unallocated (Round the Clock) in MW
	Unallocated				
	Peak (18:00 - 22:00 Hrs)		Off-Peak		
	in MW	in %	in MW	in %	
Ar. Pradesh	0.4051215	2.70	0.1500450	1.00	0.1925578
Assam	5.5966785	37.30	6.8270475	45.50	6.6219860
Manipur	1.3504050	9.00	1.2003600	8.00	1.2253675
Meghalaya	5.0265075	33.50	4.8764625	32.50	4.9014700
Mizoram	1.2753825	8.50	1.2753825	8.50	1.2753825
Nagaland	0.5251575	3.50	0.6752025	4.50	0.6501950
Tripura	0.8252475	5.50	-	0.00	0.1375413
Total	15.0045000	100.00	15.0045000	100.00	15.0045000

Khandong IC = 50 MW	Unallocated= 7.5 MW				Proposed Unallocated (Round the Clock) in MW
	Unallocated				
	Peak (18:00 - 22:00 Hrs)		Off-Peak		
	in MW	in %	in MW	in %	
Ar. Pradesh	0.2025000	2.70	0.0750000	1.00	0.0962500
Assam	2.7975000	37.30	3.4125000	45.50	3.3100000
Manipur	0.6750000	9.00	0.6000000	8.00	0.6125000
Meghalaya	2.5125000	33.50	2.4375000	32.50	2.4500000
Mizoram	0.6375000	8.50	0.6375000	8.50	0.6375000
Nagaland	0.2625000	3.50	0.3375000	4.50	0.3250000
Tripura	0.4125000	5.50	-	0.00	0.0687500
Total	7.5000000	100.00	7.5000000	100.00	7.5000000

Ranganadi IC = 405 MW	Unallocated= 60 MW				Proposed Unallocated (Round the Clock) in MW
	Unallocated				
	Peak (18:00 - 22:00 Hrs)		Off-Peak		
	in MW	in %	in MW	in %	
Ar. Pradesh	1.6200000	2.70	0.6000000	1.00	0.7700000
Assam	22.3800000	37.30	27.3000000	45.50	26.4800000
Manipur	5.4000000	9.00	4.8000000	8.00	4.9000000
Meghalaya	20.1000000	33.50	19.5000000	32.50	19.6000000
Mizoram	5.1000000	8.50	5.1000000	8.50	5.1000000
Nagaland	2.1000000	3.50	2.7000000	4.50	2.6000000
Tripura	3.3000000	5.50	-	0.00	0.5500000
Total	60.0000000	100.00	60.0000000	100.00	60.0000000

Kopili-I IC = 200 MW	Unallocated= 30 MW				Proposed Unallocated (Round the Clock) in MW
	Unallocated				
	Peak (18:00 - 22:00 Hrs)		Off-Peak		
	in MW	in %	in MW	in %	
Ar. Pradesh	0.8100000	2.70	0.3000000	1.00	0.3850000
Assam	11.1900000	37.30	13.6500000	45.50	13.2400000
Manipur	2.7000000	9.00	2.4000000	8.00	2.4500000
Meghalaya	10.0500000	33.50	9.7500000	32.50	9.8000000
Mizoram	2.5500000	8.50	2.5500000	8.50	2.5500000
Nagaland	1.0500000	3.50	1.3500000	4.50	1.3000000
Tripura	1.6500000	5.50	-	0.00	0.2750000
Total	30.0000000	100.00	30.0000000	100.00	30.0000000

Pare IC = 110 MW	Unallocated= 16.5 MW				Proposed Unallocated (Round the Clock) in MW
	Unallocated				
	Peak (18:00 - 22:00 Hrs)		Off-Peak		
	in MW	in %	in MW	in %	
Ar. Pradesh	0.4455000	2.70	0.1650000	1.00	0.2117500
Assam	6.1545000	37.30	7.5075000	45.50	7.2820000
Manipur	1.4850000	9.00	1.3200000	8.00	1.3475000
Meghalaya	5.5275000	33.50	5.3625000	32.50	5.3900000
Mizoram	1.4025000	8.50	1.4025000	8.50	1.4025000
Nagaland	0.5775000	3.50	0.7425000	4.50	0.7150000
Tripura	0.9075000	5.50	-	0.00	0.1512500
Total	16.5000000	100.00	16.5000000	100.00	16.5000000

Kopili-II IC = 25 MW	Unallocated= 3.76 MW				Proposed Unallocated (Round the Clock) in MW
	Unallocated				
	Peak (18:00 - 22:00 Hrs)		Off-Peak		
	in MW	in %	in MW	in %	
Ar. Pradesh	0.1015200	2.70	0.0376000	1.00	0.0482533
Assam	1.4024800	37.30	1.7108000	45.50	1.6594133
Manipur	0.3384000	9.00	0.3008000	8.00	0.3070667
Meghalaya	1.2596000	33.50	1.2220000	32.50	1.2282667
Mizoram	0.3196000	8.50	0.3196000	8.50	0.3196000
Nagaland	0.1316000	3.50	0.1692000	4.50	0.1629333
Tripura	0.2068000	5.50	-	0.00	0.0344667
Total	3.7600000	100.00	3.7600000	100.00	3.7600000

Doyang IC = 75 MW	Unallocated= 11 MW				Proposed Unallocated (Round the Clock) in MW
	Unallocated				
	Peak (18:00 - 22:00 Hrs)		Off-Peak		
	in MW	in %	in MW	in %	
Ar. Pradesh	0.2970000	2.70	0.1100000	1.00	0.1411667
Assam	4.1030000	37.30	5.0050000	45.50	4.8546667
Manipur	0.9900000	9.00	0.8800000	8.00	0.8983333
Meghalaya	3.6850000	33.50	3.5750000	32.50	3.5933333
Mizoram	0.9350000	8.50	0.9350000	8.50	0.9350000
Nagaland	0.3850000	3.50	0.4950000	4.50	0.4766667
Tripura	0.6050000	5.50	-	0.00	0.1008333
Total	11.0000000	100.00	11.0000000	100.00	11.0000000

AGBPP IC = 291 MW	Unallocated= 44 MW				Proposed Unallocated (Round the Clock) in MW
	Unallocated				
	Peak (18:00 - 22:00 Hrs)		Off-Peak		
	in MW	in %	in MW	in %	
Ar. Pradesh	1.1880000	2.70	0.4400000	1.00	0.5646667
Assam	16.4120000	37.30	20.0200000	45.50	19.4186667
Manipur	3.9600000	9.00	3.5200000	8.00	3.5933333
Meghalaya	14.7400000	33.50	14.3000000	32.50	14.3733333
Mizoram	3.7400000	8.50	3.7400000	8.50	3.7400000
Nagaland	1.5400000	3.50	1.9800000	4.50	1.9066667
Tripura	2.4200000	5.50	-	0.00	0.4033333
Total	44.0000000	100.00	44.0000000	100.00	44.0000000

AGTCCP IC = 130 MW	Unallocated= 18.9 MW				Proposed Unallocated (Round the Clock) in MW
	Unallocated				
	Peak (18:00 - 22:00 Hrs)		Off-Peak		
	in MW	in %	in MW	in %	
Ar. Pradesh	0.5103000	2.70	0.1890000	1.00	0.2425500
Assam	7.0497000	37.30	8.5995000	45.50	8.3412000
Manipur	1.7010000	9.00	1.5120000	8.00	1.5435000
Meghalaya	6.3315000	33.50	6.1425000	32.50	6.1740000
Mizoram	1.6065000	8.50	1.6065000	8.50	1.6065000
Nagaland	0.6615000	3.50	0.8505000	4.50	0.8190000
Tripura	1.0395000	5.50	-	0.00	0.1732500
Total	18.9000000	100.00	18.9000000	100.00	18.9000000

Bongaigaon IC = 750 MW	Unallocated= 112.5 MW				Proposed Unallocated (Round the Clock) in MW
	Unallocated				
	Peak (18:00 - 22:00 Hrs)		Off-Peak		
	in MW	in %	in MW	in %	
Ar. Pradesh	3.0375000	2.70	1.1250000	1.00	1.4437500
Assam	41.9625000	37.30	51.1875000	45.50	49.6500000
Manipur	10.1250000	9.00	9.0000000	8.00	9.1875000
Meghalaya	-	0.00	-	0.00	0.0000000
Mizoram	9.5625000	8.50	9.5625000	8.50	9.5625000
Nagaland	3.9375000	3.50	5.0625000	4.50	4.8750000
Tripura	6.1875000	5.50	-	0.00	1.0312500
Tamil Nadu*	1.4000000	1.24	1.4000000	1.24	1.4000000
Uttarakhand#	36.2875000	32.26	35.1625000	31.26	35.3500000
Total	112.5000000	100.00	112.5000000	100.00	112.5000000

* till 02/06/2023

till 24/04/2023

From: Ranganadi Hydro Power Station
Sent: 02 December 2022 22:51
To: NERLDC Control Room
Subject: Emergency Shutdown of Ranganadi Pare Line-1

****Warning****

This email has not originated from POSOCO. Do not click on attachment or links unless sender is reliable. Malware/ Viruses can be easily transmitted via email.

Emergency shutdown is required at Ranganadi Pare Line-1 for attending Line Breaker Problem from 22:25 hrs.of 02.12.2022 to 14:00 hrs. of 03.12.2022. we are facing frequent pressure drop problem in the said breaker. We do not have transfer bus and do not transfer elements online. Please kindly allow us the shutdown immediately.

Shift-In-Charge
Dikrong Power Station.
RHPS

Mock Blackstart Exercise Report of RHEP on 28.11.2022

Pre-Conditions

Elements in Bus A	Elements in Bus B
1. 132/33 kV ICT 1 station T/F at RHEP 2. Ranganadi Unit 1 3. Ranganadi Unit 3 4. 132 kV RHEP-Pare 1 5. 400/132 kV 360 MVA ICT 1 at RHEP 6. 132 kV RHEP-Chimpu	1. 132/33 kV ICT 2 station T/F at RHEP 2. Ranganadi Unit 2 3. 132 kV RHEP-Ziro 4. 132 kV RHEP-Pare 2 5. 400/132 kV 360 MVA ICT 2 at RHEP

*All the Units were desynced before Blackstart (As per schedule)

*132/33 kV ICT 1 station T/F at RHEP and RHEP Unit 1 transferred to Bus B

Sequence of Events during Black Start

Element	Opening time	Closing Time	Remarks
400/132 kV 360 MVA ICT 1 at RHEP	11:58	12:04	Shifted from Bus A to Bus B
132 kV RHEP-Chimpu	12:05	12:10	Shifted from Bus A to Bus B

1. 132 kV RHEP-Pare 1 opened at 12:13 hrs.
2. 132 kV Bus Coupler at RHEP opened at 12:14. 132 kV RHEP Bus-A dead at 12:14 hrs.
3. RHEP Unit 3 synced at 12:34 hrs. 132 kV RHEP Bus-A charged at 12:34 hrs.
4. 132 kV RHEP-Pare 1 line extended from RHEP at 12:48 hrs.
5. 132 kV RHEP-Pare 1 synchronised at PARE at 13:08 hrs.
6. Ranganadi Generation increased to 61 MW.
7. 132 kV Bus Coupler at RHEP closed at 13:21 hrs.
8. RHEP Unit 3 desynced at 13:33 hrs.

* Elements are yet to be shifted to previous configuration

Mock Blackstart Exercise of RHEP is succesful at 13:21 hrs of 28.11.2022 with RHEP Unit 3 & 132 kV RHEP-Pare 1

Shift Incharge

From: NERLDC Control Room
Sent: 06 December 2022 11:49
To: State Load Despatch Centre
Cc: ms-nerpc@gov.in; brieflee.lyngkhai@gmail.com; mukherjeesrijit2010@gmail.com;
vikashiitk308@gmail.com; N Roy (एन रॉय); Biswajit Sahu (बिस्वाजित साहू); S C De (एस सी डे); Sourav
Mandal (सौरव मंडल); Bimal Swargiary (बिमल स्वर्गीयारी)
Subject: Regarding Non Compliance of IEGC during shutdown of 160MVA 220/132kV ICT 1 at Byrnihat

Madam/Sir,

Due to post OCC approval of 160MVA 220/132kV ICT 1 at Byrnihat, after detailed system studies planned shutdown of 132 kV Umium stg1-Umium Stg 3 ckt 1 was deferred from NERLDC, in view of system reliability and security of the grid. The information regarding the said defferment was also provided in D-1 approved shutdown list of NERLDC.

NERLDC control room had specifillacy informed SLDC Meghalaya that the planned shutdown of 132 kV Umium stg1-Umium Stg 3 ckt 1 can not be allowed along with shutdown of 160MVA 220/132kV ICT 1 at Byrnihat prior to allowing the shutdown of the same. However, shutdown of 132 kV Umium stg1-Umium Stg 3 ckt 1 was availed by Meghalaya without consent and code from NERLDC end.

Such action from Meghalaya is strict vioaltion of IEGC Regulation 5.2.c

'No important element of the Regional grid shall be deliberately opened or removed from service at any time, except when specifically instructed by RLDC or with specific and prior clearance of RLDC. The list of such important grid elements on which the above stipulations apply shall be prepared by the RLDC in consultation with the constituents, and be available at RLDC/SLDCs. In case of opening/removal of any important element of the grid under an emergency situation, the same shall be communicated to RLDC at the earliest possible time after the event.'

Also Meghalaya has availed state approved shutdown of 132 kV NEHU bus for which entire Meghalaya system is kept segregated and radial in nature. Hence tripping of 160MVA 220/132kV ICT 2 at Byrnihat shall lead to disturbance in

northern Meghalaya (Ri-Bhoi areas). Thus, N-1 security criteria is not being fulfilled in the Meghalaya system.

सादर /Regards,

पाली प्रभारी/Shift-In-Charge

उत्तर पूर्वी क्षेत्रीय भार प्रेषण केंद्र, शिलांग

North Eastern Regional Load Dispatch Centre, Shillong



दूरभाष / Contact No- 0364-2537481/2537427/8415900659/ 8415900660

यू एल डी सी फोन नम्बर/ ULDC PH NO- 23640028/23640059

शेड्यूलिंग डेस्क/ Scheduling desk: 0374-2537470/ 23640027(ULDC)

फैक्स नम्बर /Fax- 0364- 2537486/2537470

From: NERLDC Control Room
Sent: 12 December 2022 01:00
To: SLDC Tripura
Cc: N Roy (एन रॉय); Biswajit Sahu (बिस्वाजित साहू); NERLDC Outage
Subject: Regarding opening of Monarchak GTG & STG without prior approval.

Sir/Madam,

On 11-12-2022, at around 23:58 Hrs, both GTG and STG at Monarchak were desynchronized. However, in the D-1 list, the Planned Shutdown was deferred due to non-receipt of D-3 confirmation form your end.

At around 20:30 Hrs, NERLDC had telephonically informed SLDC Tripura that the shutdown will not be allowed from 00:00 Hrs of 12-12-2022 due to non-receipt of approval. However, the units were still taken out of service despite above conversation. It is also to be noted that the D-1 Shutdown list was sent to respective stakeholders at 10:17 Hrs of 11-12-2022 which is way before the Shutdown timing of the Units.

Such action from Tripura is strict violation of IEGC Regulation 5.2.c:

'No important element of the Regional grid shall be deliberately opened or removed from service at any time, except when specifically instructed by RLDC or with specific and prior clearance of RLDC. The list of such important grid elements on which the above stipulations apply shall be prepared by the RLDC in consultation with the constituents, and be available at RLDC/SLDCs. In case of opening/removal of any important element of the grid under an emergency situation, the same shall be communicated to RLDC at the earliest possible time after the event.'

It is to be noted that the above shutdown will have effect on Bangladesh(Comilla) load (international load) for which no consent has been received from Bangladesh. Thus, it is hereby requested to not avail such Shutdown without prior approval and synchronise the units back to the grid to avoid contingencies.

Encl: D-1 Shutdown list for 12.12.2022

सादर / Regards,

पाली प्रभारी/ Shift-In-Charge

उत्तर पूर्वी क्षेत्रीय भार प्रेषण केंद्र, शिलांग

North Eastern Regional Load Dispatch Centre, Shillong



दूरभाष / Contact No- 0364-2537481/2537427/8415900659/ 8415900660

यू एल डी सी फोन नम्बर/ ULDC PH NO- 23640028/23640059

शेड्यूलिंग डेस्क/ Scheduling desk: 0374-2537470/ 23640027(ULDC)

फैक्स नम्बर /Fax- 0364- 2537486/2537470